

# NATIONAL SKILLS QUALIFICATIONS/ NATIONAL OCCUPATIONAL STANDARD

(NSQ/NOS)

LEGUME CROP PRODUTION

LEVEL 1

SEPTEMBER 2025

## NATIONAL SKILLS QUALIFICATION NSQ LEVEL 1-LEGUME CROP PRODUCTION OVERVIEW

This qualification is designed for individuals who are interested in pursuing a career in Legume Crop Production for the award of National Skills Qualifications (NSQ)/National Occupational Standards (NOS). It is aimed at producing technicians in **LEGUME CROP PRODUCTION** NSQ Level 1 with the competencies necessary to support in **LEGUME CROP PRODUCTION** 

This qualification is subject to review as and when the need arises.

#### **QUALIFICATION PURPOSE**

This qualification is aimed at developing competence in Legume Crops Production for employment and food security.

#### **QUALIFICATION REQUIREMENTS**

All Candidates must:

- a. Be at least (14) years of age
- b. Be medically fit
- c. Be mentally fit (Mental alertness)
- d. Have achieved all the Safety and Health mandatory units in the qualification
- e. Be a Nigerian citizen
- f. Other nationals (International passport, residence permit)
- g. Be vetted

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#### **QUALIFICATION OBJECTIVES**

To achieve this qualification, the farm attendant should be able to demonstrate the knowledge of:

- 1. Understand the importance of Communication and Team-work at the workplace;
- 2. Know basic safety and health requirements in a workplace
- 3. Understand the importance of site selection in Legume crop production
- 4. Understand the concepts of land preparation in Legume crop farming
- 5. Understand the basic concepts of planting Legume crop.
- 6. Understand the fundamentals of crop management practices in Legume crop farming.
- Exhibit understanding of harvest and harvesting procedures in Legume crop farming.

#### **UNIT ASSESSMENT/EVIDENCE REQUIREMENTS:**

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

Assessment Methods to be Used Include:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS) or Reflective Practice (RP)
- 5. Assignment (ASS)

### NATIONAL SKILLS QUALIFICATION NSQ LEVEL 1-LEGUME CROP PRODUCTION

#### **Mandatory Units**

S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours
1	AGR/CRP/001/L1	Occupational health and safety	2	20
2	AGR/CRP/002/L1	Communication in Legume Crop Production	2	20
3	AGR/CRP/003/L1	Team work	4	40
4	AGR/CRP/004/L1	Site selection	4	40
	TOT	ΓAL	12	120

**Optional Units** 

		Optional Units		
S/No /Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours
5	AGR/CRP/005/L1	Land preparations for field	3	30
6	AGR/CRP/006/L1	Nursery and planting practices	3	30
7	AGR/CRP/007/L1	Crop management practices	3	30
8	AGR/CRP/008/L1	Legume Harvesting and Harvesting procedures	3	30
9	AGR/CRP/009/L1	Processing and storage of legume crop products	3	30
10	AGR/CRP/0010/L1	Transport and marketing of legume crop products	2	20
		TOTAL	17	170

#### **GENERAL GUIDE**

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 learning hours	The average number of hours of supervised or
	directed study
	time or assessment required to achieve a
	qualification or unit of a qualification.
<b>Y</b>	

UNIT 001: OCCUPATIONAL HEALTH AND SAFETY

**Unit reference number:** AGR/CRP/001/L1

NSQ level:

Credit value: 2

**Guided learning hours:** 20 hours

**Unit Purpose:** This unit specifies the competencies required to demonstrate understanding of 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 and knowing how to protect self from the effects of gaseous, liquid and solid substances;

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

Unit 001: Occupational Health and Safety

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)	Evidence Type										R	ef.	ence No.	
The learner will:		The learner can:		T												
LO 1:	1.1	Explain safe work practice and									X					
Vnow Safe Working		instructions						1	$\triangle$		) '					
Know Safe Working Practices and Instructions	1.2	Identify safety signs and symbol								)						
Tractices and Instructions	1.3	Use signs and symbols correctly				Á										
	1.4	Carry out safe work practices and instructions		4												
	1.5	Work in accordance with health and safety best practices	1													
LO 2:	2.1	Identify work environment hazards														
Know Safaty Hazards and	2.2	State methods to reduce the risk of														
Know Safety Hazards and		these hazards														
Risks	2.3	Identify Personal Protection														
		Equipment (PPE)														
		Eg: Goggles, Gloves etc.														
	2.3	State methods to resolve an														
		occurring environmental hazard														
LO 3:	3.1	Identify basic first aid equipment														
	3.2	State how to maintain hygienic, safe														
Know Appropriate Actions		and secure workplace.														
during Accident/Injury	3.3	State the uses of safety equipment in														
	)	a workplace as required.														
LO 4:	4.1	Use safe access and exit routes in														
W C C W V T I'V I		the work environment														
Know Safe Work Habit and Clean Work Environment	4.2	Dispose all wastes appropriately to							T							
Clean Work Environment		designated waste facilities														
	4.3	Explain methods of resource							T							
Y		conservation (e.g. Water, Energy														
		etc)														

<b>Learners Signature:</b>	Date:	
Assessors Signature:	Date:	
IQA Signature (if sampled)	Date:	
EQA Signature (if sampled)	Date:	
	A	
	OR Y	
3		

UNIT 002: COMMUNICATION AND INTERPERSONAL SKILLS

**Unit reference number:** AGR/CRP/L/002/L1

NSQ level:

Credit value: 2

**Guided learning hours:** 20 hours

**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;

#### **Unit assessment requirements/ evidence requirements:**

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 002: Communications and Interpersonal Skill** 

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Ev	Evidence		Ev	ide	nce	Ī	
(LO)		(PC)		Type			Re	f.		
							Pa	ge ]	No.	
The learner will:		The learner can:			ı					
LO 1:	1.1	State reasons why good communication is								4
		important								
Know the Importance of Good Communication	1.2	List ways to communicate effectively						1		Ì
Good Communication	1.3	Exhibit patience and a mild demeanour							7	
		while communicating with colleagues,								
		managers and clients					)			
	1.4	Speak in a respectful manner								1
	1.5	Use respectful body language	,		X					1
	1.6	Interpret verbal communication accurately	1		<b>)</b>					1
LO 2:	2.1	Read and accurately follow steps in a an	1							1
		instruction manual pertaining to any of the								
Know how to Document		units in this course								
and Follow Documented Instructions	2.2	Document information in the workplace								
Instructions		(Eg: Receipt, Invoices, Reports)								
	2.3	Document Errors, solution, processes and								1
		reports								
LO 3:	3.1	Demonstrate polité greetings								_
Know Interpersonal								<del>                                     </del>	_	_
Relationship	3.2	Recognize cultural and social differences								
	3.3	Apply positive body language in						$\dashv$	+	
		interactions.								

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

UNIT 003: TEAMWORK

**Unit reference number:** AGR/CRP/003/L1

NSQ Level:

Credit Value: 2

**Guided Learning Hour:** 20 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required to develop team spirit and positive working relationship with co-workers.

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Direct Observation (DO)
- 2. Personal statement/Learning Journal (PS/LJ)
- 3. Questions and Answers (QA)
- 4. Witness Testimony (WT)
- 5. Assignment (ASS)

#### Unit 003: Teamwork

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)	Evidence Type				Evidence Type						R	ef.	ence No.	
The learner will:		The learner can:						Ü								
LO 1: Know how to Develop	1.1	Define teamwork														
Good Working Relationship with Co-	1.2	List the importance of teamwork														
workers	1.3	List the qualities of a team player							1							
LO 2 Know how to Take	2.1	List own roles and responsibilities within a team.				~				_						
Responsibility within the Team	2.2	Perform tasks in line with the team rules and regulations.		1												
	2.3	Work well in a group.		X	<b>&gt;</b>		Ц									
LO 3 Know how to Comply	3.1	Explain code of conduct in work environment														
with Rule of Organization	3.2	Use organizational code of practice														
	3.3	Work in line with organizational standard.														

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

UNIT 004: SITE SELECTION

**Unit reference number:** AGR/CRP/004/L1

NSQ level:

Credit value: 3

**Guided learning hours:** 30

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for suitable site selection

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 004: Site Selection** 

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)	Evidend Type												Evidence Type		Re	ide f. ge	
The learner will:		The learner can:																	
LO 1:	1.1	Identify rich vegetation area																	
Know Soil and Climatic	1.2	Identify areas with abundant sunshine																	
Requirement for Legume	1.3	Locate a suitable well drained							7										
Crops		fertile soil						4	1										
	1.4	Identify areas with good rainfall pattern					X												
	1.5	Identify rich vegetation area																	
LO 2	2.1	Identify sandy soil		1	Y														
Know Soil Properties	2.2	Identify loamy soil			)'														
	2.3	Identify clay soil	7																
	2.4	Explain differences in the soil types																	
	2.5	Describe the physical																	
		characteristics of the soil types																	
LO 3:	3.1	Define leguminous crops																	
Know Leguminous Crops	3.2	List the types of leguminous crops																	
	3.3	Identify the types of leguminous crops																	
	3.4	Explain benefits of leguminous crops																	

Learners Signature:	Date:
 Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
<b>EQAM Signature (if sampled)</b>	Date:

Unit 005: LAND PREPARATION

**Unit Reference Number:** AGR/CRP/005/L1

NSQ level:

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required in land preparation

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account
- 6. Product of the learners work.
- 7. Assignment

**Unit 005: Land Preparation** 

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence			e	Ev	ide	ence	,
(LO)		(PC)	Ту	pe			Re		Νīο	
The learner will:		The learner can:					Pa	ge	No.	
LO 1	1.1	Carry out land clearing								
	1.2	Carryout felling of tree								
Know the Process of Land	1.2	Danfarma strumenia a of traces and								
Preparation	1.3	Perform stumping of trees and								
1		removal of roots and debris on the						1		
		selected land								
	1.4	Gather the stumps, roots and								
		debris on the field								
LO 2	2.1	Plough the land		-						
Know Tillage	2.2	Harrow the land			>					
Operation	2.3	Ridge the land if necessary		)						
LO 3	3.1	Identify various simple farm tools								
		used for land preparation								
Know Basic Farm Tools.	3.2	Distinguish between the simple								
		farm tools used for nursery bed								
		preparation.								
	3.3	Carry out simple farm tools								
		maintenance such as oiling of								
		parts, cleaning, washing, etc,								
	3.4	Identify various simple farm tools								
		used for land preparation								

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit 006: PLANTING PRACTICES

**Unit reference number:** AGR/CRP/006/L1

NSQ level:

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for planting practices

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 006: Planting Practices** 

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)			Evidence Type		Ev Re		ence	
The learner will:		The learner can:		-			Pa	ge	No.	
LO 1:	1.1	Seed viability								
Know Planting Operations	1.2	Dress seed.								-
	1.3	Plant seed on the field according to spacing.								
LO 2  Know Fertilizer and	2.1	Identify different types of fertilizer								
Herbicides Application	2.2	Identify different types of herbicides	~							
	2.3	Carryout basal, ring method or broadcasting of fertilizer application								
	2.4	Carryout herbicides application								
LO 3	3.1	Carryout dibbling method of planting								
Know Appropriate	3.2	Carryout drilling method of planting								
Planting Methods	3.3	Select the right planting methods for each legume crop								

Learners Signature;	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

UNIT 007: CROP MANAGEMENT PRACTICES

**Unit reference number:** AGR/CRP/007/L1

NSQ level:

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for crop management practices.

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 007: Crop Management Practices** 

LEARNING OBJECTIVE (LO)  The learner will:		PERFORMANCE CRITERIA (PC) The learner can:	Evidence Type										Evidence Type					Re	f.	nce No.	
LO 1	1.1	Thin excess seedlings																			
Know Thinning of	1.2	Supply seeds/ seedlings in missing spots																			
Seedlings, Supplying of	1.3	Distinguish between vigorous and								1											
Seeds/Seedlings		unhealthy seedlings						4	1	1											
	2.1	I '-4 1'.66																			
102	2.1	List different types of fertilizers			(			7													
LO 2	2.2	Apply fertilizer on the field								1	7										
Know Fertilizer and	2.3	Perform different methods of fertilizer		S	7																
Herbicides Application		application such as; ring, basal,		)																	
	2.4	broadcasting methods, etc	<b>Y</b>							4	_										
	2.4	Observe when legume crops are due for fertilizer application																			
	2.5	Carryout pesticides application																			
LO 3																					
Know Pest and Disease	3.1	Distinguish between weeds and legume																			
Control	2.2	crops								_											
	3.2	Identify field pests of legume crops								_											
	3.3	Observe disease conditions on the field																			
	3.4	Apply appropriate measures in																			
		prevention and control of pests and																			
		diseases of legume crops								_											
	3.5	Operate simple farm tools in controlling																			
		pests and diseases on the field								_											
	3.6	Carry out maintenance of simple farm																			
		tools such as; knapsack sprayer, handheld sprayer, electrodyn sprayer,																			
		etc																			
	3.7	Apply safety precautions where								1											
		necessary								$\perp$											

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:
B	

UNIT 008: LEGUME HARVESTING AND HARVESTING PROCEDURES

**Unit reference number:** AGR/CRP/008/L1

NSQ level:

Credit value: 3

**Guided learning hours:** 30 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for legume harvesting and harvesting procedures.

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 008: Legume Harvesting and Harvesting Procedures** 

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)		Evidence Type		Evidence Type		Re	f.	ence	
The learner will:		The learner can:					Pa	ge	No.		
LO 1	1.1	Identify matured legume crops								_	
Know Maturity Time of	1.2	State the maturity period of legume									
Legume Crops		crops									
	1.3	Distinguish between mature and					,		1		
		immature legume plant									
	1.4	Identify off types				_					
	1.5	Remove off types									
LO 2	2.1	Use harvesting equipment		7							
Know Harvesting and	2.2	Use right method of harvesting								_	
Post-harvesting Procedures	2.3	Place harvested product on a clean	<b>&gt;</b>								
		space									
	2.4	Carryout harvesting of legumes									
	2.5	Carryout harvesting of fodder									
	2.6	Carryout bagging of the crop									
	3.1	Define post-harvest loss									
	3.2	State causes of post-harvest loss									
LO 3	3.3	Explain measures of preventing post-									
Know Post-Harvest Loses		harvest loss									
	3.4	Explain impact of post-harvest loss									

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

#### Unit 009: PROCESSING AND STORAGE OF LEGUME CROP PRODUCTS

**Unit reference number:** AGR/CRP/009/L1

NSQ level:

Credit value: 3

**Guided learning hours:** 30 hours

**Unit Purpose:** This unit standard specifies the competencies required to demonstrate understanding of handling, processing, storage and marketing of legume product.

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 009:** Processing and Storage of Legume Crop Products

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence		Ev	ide	ence			
(LO)		(PC)	Type			Re				
							Pa	ge	No.	
The learner will:		The learner can:								
LO 1	1.1	Carryout processing of legume crops							_	
Know Legume Crops	1.2	Distinguish between products of						<b>\</b>		
Handling and Processing		legume crops.					-			
	1.3	Carryout bagging of legume crops					C			
	1.4	Carryout out weighing of the bagged				~				
		products.			_					
								ĺ		
	2.1	Carryout cleaning of store using		/						
		simple tools.						1		
LO 2	2.2	Arrange pallets in the store								
Know the Basic Skills in	2.3	Perform stacking of bags in the store								
Storage of Legume Crops	2.4	Observe the changes in the moisture								1
		content								
LO 3:	3.1	Define legumes products packaging								
V D I '	3.2	Describe how to package legumes								
Know Packaging Procedures		products						1		
1 ioceaures	3.3	Define legumes packaging materials								7
	3.4	List types of legumes packaging								٦
		materials								

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

#### UNIT 010: TRANSPORT AND MARKETING OF LEGUME CROP PRODUCTS

**Unit reference number:** AGR/CRP/ 010/L1

NSQ level:

Credit value: 3

**Guided learning hours:** 30 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for transport and marketing of legume crop products.

#### Unit assessment requirements/ evidence requirements:

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

#### Assessment methods to be used include:

- 1. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners' work.
- 7. Assignment

**Unit 010:** Transport and Marketing of Legume Crop Products

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evi	de	nce	9	Ev	ideno	ce
(LO)		(PC)	Ty	pe			Re	f.	
							Pa	ge No	<b>).</b>
The learner will:		The learner can:							
LO 1	1.1	Identify appropriate means of							
Know the Transportation		transporting legume crops							
of Legume Crop Products	1.2	Choose the right means of					_	7	
		transporting legume crops.						) >	
	1.3	Carryout loading of legume crops					)		
	1.4	Carryout offloading of legume crops.		<u> </u>					
LO 2	2.1	Sort legume crops/products.		)	<b>Y</b>				
Know Grading/	2.2	Weigh legume crops/products							
Standardization of Legume	2.3	Prepare legume crops/products for	•						
Crop/ Products		marketing.							
LO 3	3.1	Identify the right time to market							
		fiber crops/products							
Know Marketing of Legume Crops/ Products	3.2	Identify market for the products							
	3.3	Know how to measure the products							
		for marketing							

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



### NATIONAL SKILLS QUALIFICATIONS/ NATIONAL OCCUPATIONAL STANDARD

(NSQ/NOS)

### LEGUMES CROP PRODUTION

LÉVEL 2

SEPTEMBER 2025

#### NATIONAL SKILLS QUALIFICATION

#### **NSQ LEVEL 2-LEGUME CROP PRODUCTION**

#### **OVERVIEW**

This qualification is designed for individuals who are interested in pursuing a career in Legume Crop Production for the award of National Skills Qualifications (NSQ)/National Occupational Standards (NOS). It is aimed at producing technicians in **LEGUME CROP PRODUCTION** NSQ Level 2 with the competencies necessary to support in **LEGUME CROP PRODUCTION** 

This qualification is subject to review as and when the need arises.

#### **QUALIFICATION PURPOSE**

This qualification is aimed at developing competence in Legume Crops Production for employment and food security.

#### **QUALIFICATION REQUIREMENTS**

All Candidates must:

- a. Be at least (14) years of age
- b. Be medically fit
- c. Be mentally fit (Mental alertness)
- d. Have achieved all the Safety and Health mandatory units in the qualification
- e. Be a Nigerian citizen
- f. Other nationals (International passport, residence permit)
- g. Be vetted

#### **QUALIFICATION OBJECTIVES**

To achieve this qualification, the farm attendant should be able to demonstrate the knowledge of:

- 1. Understand the importance of Communication and Team-work at the workplace;
- 2. Know basic safety and health requirements in a workplace
- 3. Understand the importance of site selection in Legume crop production
- 4. Understand the concepts of land preparation in Legume crop farming
- 5. Understand the basic concepts of planting Legume crop.
- 6. Understand the fundamentals of crop management practices in Legume crop farming.
- 7. Exhibit understanding of harvest and harvesting procedures in Legume crop farming.

#### UNIT ASSESSMENT/EVIDENCE REQUIREMENTS:

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

Assessment Methods to be Used Include:

- 1. Direct Observation (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (PS) or Reflective Practice (RP)
- 5. Assignment (ASS)

#### **Mandatory Units**

		Manatory Circs			•
Unit	Reference Number	NOS Title	Credit	Guided	
			Value	Learning	
				Hours	
1	AGR/CRP/001/L2	Safety in legume Farms	3	30	
2	AGR/CRP/002/L2	Communicate effectively	3	30	<b>\</b>
		in crop Farm Environment			
3	AGR/CRP/003/L2	Teamwork	2	20	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
4	AGR/CRP/004/L2	Site selection	4	40	
	TOTA	<b>AL</b>	12	120	
		<b>Optional Units</b>			
		<b>Optional Units</b>			

#### **Optional Units**

Credit Value   Credit Value   Credit Value   Carning Hours		Reference Number	NOC Title		$\alpha$ • 1 1
crops production  6 AGR/CRP/006/L2 Nursery and planting practices II  7 AGR/CRP/007/L2 Crop management practices 4 40 II  8 AGR/CRP/008/L2 Legume Harvesting and Harvesting procedures  9 AGR/CRP/009/L2 Processing and storage of legume crop products II  10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL 24 240	5		NOS Title		Learning
practices II  7 AGR/CRP/007/L2 Crop management practices II  8 AGR/CRP/008/L2 Legume Harvesting and Harvesting procedures  9 AGR/CRP/009/L2 Processing and storage of legume crop products II  10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL 24 240		AGR/CRP/005/L2		4	40
8 AGR/CRP/008/L2 Legume Harvesting and Harvesting procedures  9 AGR/CRP/009/L2 Processing and storage of legume crop products II  10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL  24 240	6	AGR/CRP/006/L2		4	40
Harvesting procedures  9 AGR/CRP/009/L2 Processing and storage of legume crop products II  10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL 24 240	7	AGR/CRP/007/L2		4	40
9 AGR/CRP/009/L2 Processing and storage of legume crop products II  10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL 24 240	8	AGR/CRP/008/L2		4	40
10 AGR/CRP/010/L2 Transport and Marketing of legume Products  TOTAL 24 240	9	AGR/CRP/009/L2	Processing and storage of	4	40
TOTAL 24 240	10	AGR/CRP/010/L2	Transport and Marketing of	4	40
BOLED		TOT		24	240
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#### **GENERAL GUIDE**

Unit reference  The unique reference number given to each unit at qualification approval by NBTE  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.  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 learning hours  The average number of hours of supervised or directed study time or assessment required to achieve a	Unit number  Unit reference  The unique number assigned to the unit.  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.  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 learning hours  The average number of hours of supervised or directed study time or assessment required to achieve a	Unit number  Unit reference  The unique number assigned to the unit.  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 learning hours  The average number of hours of supervised or directed study time or assessment required to achieve a support time or	Unit number Unit reference 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 learning hours The average number of hours of supervised or directed study time or assessment required to achieve a		
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UNIT 001: WORK SAFELY ON A CROP FARM

**Unit Reference Number:** AGR/CRP/L/001/L2

NSQ Level: 2

Credit Value: 3

**Guided Learning Hours:** 30

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for safety in legume farms.

#### 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)
- 7. Other methods (O t), Assignments, Case Study, Essay, Project, etc.

**Unit 001: Work Safely on a Crop Farm** 

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA (PC)		vide ype		æ	Re	ride ef. ge l		
The learner win:		The learner can:								
LO 1:	1.1	Explain safe work practices as							$\perp$	_
	1.1	obtained along the crop production								
Know how to Work Safely		value chain								4
on a Crop Farm.	1.2	Identify safety signs and symbols on								
		crop farms						7		
	1.3	Provide correctly, the safety signs and						T		_
		symbols						'ال		
	1.4	Demonstrate safe work practices and								
		instructions on crop farms								
	1.5	Operate in accordance with health and			X					
		safety practices	4		>					
LO 2:	2.1	Identify work environment hazards							$\perp$	
Know how to Comply with	2.2	State types of hazards and risks	ł							
Safety Standards on Crop	<u> </u>	associated with crops						$\dashv$	$\bot$	
Farm.	2.3	State safety standards on crop farms								
		and processing facilities							_	
	2.4	Use safety tools, materials and								
		equipment in crop processing facilities							_	
102	2.1	TI CC (I ( CDDC ) I C								
LO 3:	3.1	Identify the types of PPEs required for								
Know how to Apply	2.2	legume processing plants							+	
Personal Protective	3.2	Select appropriate PPE for legume								
Equipment (PPE) in Legume Processing	2.2	processing plants  Demonstrate the use of PPE							-	
Legume Frocessing Facilities	3.3	Maintain PPE before or after use							-	
1 uctimes	3.4	Walitaiii FFE before of after use								_
LO 4:	4.1	Locate first aid facility							+	
Know how to Response to	4.2	Use basic dressing materials						$\vdash$	+	
Accidents/Injury in	4.3	Respond to supervisor given						$\dashv$	+	_
Legume Processing Plants	7.3	instructions								
	4.4	Report incidences of accident/injury to						$\dashv$	+	_
Y	'	the appropriate supervisor								
		are appropriate supervisor								
LO 5:	5.1	Use safe access and exit routes in the							+	
Know how to Apply Safe		work environment								
Work Habit and Clean	5.2	Identify appropriate working tools,							$\top$	
Work Environment in		materials and equipment								
Legume Processing Plants	5.3	Use tools and equipment safely in							$\top$	
·		accordance with the supervisor's								
		instructions								
	5.4	Return all tools, equipment and								
		unused materials for appropriate								
		storage							$\perp$	
	5.5	Carry out general housekeeping of								
		work environment						igspace	$\perp$	
	5.6	Dispose all wastes appropriately to								

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA (PC)  The learner can:	Evidence Type		Evidend Ref. Page No				
		designated waste facilities							
LO 6: Know how to Comply with Standards of Lifting,	6.1	Identify lifting and stacking techniques							
Loading/Offloading and Stacking of Materials in Legume Processing Facilities	6.2	Demonstrate lifting techniques in loading and offloading of materials without mechanical assistance							
	6.3	Demonstrate correct lifting and loading techniques with mechanical assistance		<	ヘンン				
	6.4	Stack materials correctly		>					

Learners Signature:	Date:	
Assessors Signature:	Date:	
IQAM Signature (if sampled)	Date:	
EQAM Signature (if sampled)	Date:	
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#### UNIT 002: COMMUNICATION IN LEGUME FARM ENVIRONMENT

**Unit Reference Number:** AGR/CRP/002/L2

NSQ Level: 2

Credit Value: 3

**Guided Learning Hours:** 30 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for communication in legume farm environment.

#### 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)
- 7. Other methods (Ot), Assignments, Case Study, Essay, Project, etc.

**Unit 002: Communication in legume Farm Environment** 

LEARNING OBJECTIVE (LO)	
The learner will:  LO 1:  Know how to Apply the use of a Non-Complex Communication System in a Work Environment  LO 2: Know how to Source for Information on 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  2.1 Identify the source of information in the work environment  2.2 Relate effectively with the source of	0.
LO 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   2.1   Identify the source of information in the work environment   2.2   Relate effectively with the source of	
Know how to Apply the use of a Non-Complex       necessary information         Communication System in a Work Environment       1.2 Use non-verbal means to convey necessary information e.g. body language, signs         1.3 Interpret symbols and signs appropriately         LO 2:       2.1 Identify the source of information in the work environment         Environment       2.2 Relate effectively with the source of	
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Information on a Work Environment  2.2 Relate effectively with the source of	
Environment 2.2 Relate effectively with the source of	+
Relate effectively with the source of	
	#
2.3 Use the different information flow	
systems in a work environment	
2.4 Harrings mostly and the state of the stat	+
Use information gathered to avoid	
challenges in a work situation	
2.5 December 2.5 D	+
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: 3.1 Locate the various communication	
Know how to Apply equipment in the work environment	
Various Means of 3.2 Use effectively the various	$\Box$
Communication in a Work   communication equipment in a work	
Environment environment	
3.3 Pass information effectively to the	$\prod$
right personnel	
3.4 Obey instructions in line with ethics	$\Box$
of the work environment	1 '

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

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UNIT 003: TEAMWORK

**Unit Reference Number:** AGR/CRP/003/L2

NSQ Level: 2

Credit Value: 2

**Guided Learning Hours:** 20 hours

**Unit Purpose:** The purpose for this unit is to impact into the learner the necessary skills, knowledge and understanding required to develop team spirit and positive working relationship with colleagues.

# 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. Observation
- 2. Work Product
- 3. Professional Discussion
- 4. Question and Answer

Unit 003: Teamwork

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)	Evidence Type						ef.	ence No.	
The learner will:		The learner can:									
LO 1	1.1	Identify the need for developing positive							7		
Know Positive Working		working relationships with colleagues							X	7	
Relationship with	1.2	Recognize the importance of relating				1			7		
Colleagues		with other people in a way that makes									
		them feel valued and respected				1					
	1.3	Assist team members when required.	1		1						
	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									
		teamwork.									
	2.1	Recognize own role and responsibilities									
LO 2		within a team									
	2.2	Perform individual tasks in line with the									
Know how to Take		team's rules and regulations.									
Responsibility Within the	2.3	Participate effectively in teamwork.									T
Team											
LO3	3.1	Explain organizational code of conduct									
Variable Committee '41	3.2	Work in line with organizational									
Know how to Comply with		standard									
Policy of Organisation	3.3	Use organizational code of practice									
	3.4	Adhere strictly to instructions given by									
		the Management									

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

UNIT 004: SITE SELECTION

**Unit reference number:** AGR/CRP/004/L2

NSQ level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for suitable site selection.

## 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 004:** Site Selection

LEARNING OBJECTIVE (LO)  The learner will:		PERFORMANCE CRITERIA (PC) The learner can:	Evidence Type						Evidence Type			vid ef. ige		
LO 1	1.1	Demonstrate use of survey equipment		I				T		T				
Know Soil and Climatic	1.1	like ranging pole, theodolite, meter rule, GPS, total station etc									, (			
Requirement for Legume	1.2	Carry out soil test using simple soil kits (pH meter, moisture analyzer, sieves							(	<				
Crops		etc									>			
	1.3	Perform soil amendments like liming, organic matter, sterilization, fumigation incorporation if necessary							,\					
	1.4	Distinguish between different types of soils (Sand, loam and clay)	4	Ć										
	1.5	Explain the effect of different soil types on legume yield												
	1.6	State the effect of topography on legume crops growth												
102	2.1	List out physical properties of sand, clay and loam soils												
LO 2  Know Soil Properties	2.2	List out Chemical properties of sand, clay and loam soils												
•	2.3	Explain effects of these properties in 2.1 and 2.2 above on legume crops												
	2.4	Measure effect of each of these properties in 2.1 and 2.2 above on legume crops												
		regume crops												
LO 3	3.1	List out ecological parameters to be considered on legume crops												
Know Ecological Requirements	3.2	Outline ecological requirements for each legume crop								1				
4	3.3	Measure each of these ecological factors in the field												
AA)	3.4	Explain effect of these ecological factors (temp. rainfall, relative humidity, soil type, photo period etc.) on legume crops												
	3.5	Describe the adaptations of legume crops to climatic elements												
	3.6	Observe changes caused by any of these factors on the growth of legume crops.												

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
<b>EQAM Signature (if sampled)</b>	Date:
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#### UNIT 005: LAND PREPARATION FOR LEGUME CROPS PRODUCTION

**Unit Reference Number:** AGR/CRP/005/L2

NSQ level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for land preparation for legume crops 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 005:** Land Preparation for Legume Crops Production

LEARNING OBJECTIVE (LO)  The learner will:		PERFORMANCE CRITERIA (PC) The learner can:	Evidence Type							e		ce o.
LO 1	1.1	Identify implements required for each										
		of the land preparation operations										
Know Land Preparation	1.2	Demonstrate the use of farm										
		implements in land preparation							N			
	1.3	Determine when each of these										
		operations needed to be carried out.										
	1.4	Ensure the land is well prepared						7				
								<u>'</u>				
LO 2	2.1	Map out different areas for different										
Know Farm Layout		operations based on the soil/land		V				,				
Know Farm Layout		characteristics	,									
	2.2	Determine plots for each crop										
	2.3	Arrange each crop to suit farming										
	2.3	operation						,				
	2.4	Explain advantages and disadvantages										
		of 2.1 above						,				
	3.1	Describe farm tools							П			
L03	3.2	List types of farm tools										
Know Farm Tools and	3.3	Describe the roles of farm tools in						,				
		legume crop production										
Implements	3.4	Identify various simple farm tools						,				
		used for land preparation										
	3.5	Differentiate between the simple farm						,				
		tools used for land preparation.										
	3.6	Carry out simple farm tools						1				
		maintenance										
	3.7	Define farm implement										
	3.8	Describe types of farm implements										
	3.9	Differentiate between farm tools and										
		farm implement										

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessors Signature:	Date:
Learners Signature:	Date:

UNIT 006: NURSERY AND PLANTING PRACTICES II

**Unit reference number:** AGR/CRP/006/L2

NSQ Level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit standard specifies the competencies required to demonstrate understanding of planting seeds on the field, applying pre-emergence herbicides, basal fertilizer, irrigating when necessary and the appropriate planting methods for legume crop 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

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Unit 006: Nursery and Planting Practices II

Unit 006: Nursery and I	Planti		1						
LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence Type					ide	nce
(LO)	(PC)						Re		
							Pa	ge l	No.
The learner will:		The learner can:							
LO 1	1.1	Carryout seed viability test							
Know Planting								$\dashv$	
<b>G</b>	1.2	Identify different varieties of legumes							
Operations	1.3	Describe advantages of some varieties							
	1.5	over others (eg. early varieties, high							
		yielding, disease tolerance, etc.)							
	1.4	State planting methods						7	
	1.5	Describe the planting methods				1			-
								$\vdash$	
	1.6	Discuss the seed rate on the field				)		$\vdash$	
	1.7	Discuss the spacing requirement on	4						
		the field							
T.O.2	0.1	P 1:							
LO 2	2.1	Explain pre-emergence herbicides							
Know Application of Pre-	2.2	application in legume crop						$\vdash$	
·	2.2	Calculate rate of herbicides to be							
Emergence Herbicides and	2.2	applied						$\vdash$	
Basal Fertilizers	2.3	Explain basal fertilizer application						$\vdash$	
	2.4	Calculate rate of fertilizer to be							
		applied							
10.2	2 1	State planting weeths do						$\vdash$	
LO 3	3.1	State planting methods						$\dashv$	-
Vnou Annuariata Dlantina	3.2	State number of seeds per stand				-		$\dashv$	
Know Appropriate Planting Methods (Dibbling or	3.3	Measure and mark spacing of legume							
Drilling)	2.4	crops.						$\dashv$	
Diming)	3.4	Determine appropriate planting depth							
	3.5	Carry out maintenance of planting							
	C	implements used for the operation							

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

UNIT 007: CROP MANAGEMENT PRACTICES

**Unit reference number:** AGR/GRP/007/L2

NSQ Level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills in crop management practices.

# 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 007: Crop Management Practices** 

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA (PC)	Ev Ty		e	Evidence Ref. Page No				
The learner will:		The learner can:				1 4	S	110		
LO 1	1.1	Distinguish between vigorous and unhealthy seedlings								
Know Thinning of Seedlings, Supplying of	1.2	Explain the reason for carrying out thinning on the field								
Seeds/Seedlings	1.3	Explain the reason for carrying out supply of missing stands on the field				1		,	~	
	1.4	Ensure that thinning and supplying is carried out on the field		\ \			,			
102	2.1	Distinguish hydrogen and								
LO 2  Know Fertilizer and	2.1	Distinguish between pre- emergence and post emergence herbicides.		<b>)</b>						
Herbicides Application	2.2	Calculate the rate of herbicides needed on the field								
	2.3	Distinguish between fertilizer forms such as foliar, granules, etc.								
	2.4	Distinguish between fertilizer types such as; organic and inorganic (single and compound).								
	2.5	Calculate rate of fertilizer application							_	
	2.6	State the appropriate methods of fertilizer application to adopt.								
		V- 1.								
LO 3	3.1	Explain pest								
Know Pest, Disease and	3.2	Identify field insect pests								
Their Control	3.3	Identify damages caused by insect pests								
80	3.4	Identify damages caused by insect pests								
	3.5	Describe pest management strategies								
	3.6	Select measures in prevention and control of pests								
$O_{>}$	3.7	State the economic importance of pests								
	3.8	Define disease								
	3.9	Identify causative agents of diseases								
	3.10	Identify damage caused by diseases								
	3.11	Identify different methods of disease control								
	3.12	Define weeds control								

3.13	Select measures in prevention and					
	control of weeds					
3.14	Apply safety precautions in the					
	application of insect pests,					
	disease and weeds control					
	chemicals					

Learners Signature:	Date:	
Assessors Signature:	Date:	Sk
IQAM Signature (if sampled)	Date	e:
<b>EQAM Signature (if sampled)</b>	Date:	

#### UNIT 008: LEGUME HARVESTING AND HARVESTING PROCEDURES

**Unit reference number:** AGR/CRP/008/L2

NSQ Level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required for legume harvesting and harvesting procedures.

# 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 008: Legume Harvesting and Harvesting Procedures** 

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Ev	iden	ce	Ev	ide	nce
(LO)		(PC)	Type Ref.					
						Pa	ge l	No.
The learner will:		The learner can:			_			
LO1	1.1	Explain physiological changes						
Know Maturity Time of		toward maturity in legume crop						Д,
· ·	1.2	Explain signs of maturity in legume						
Legume Crop		crops						
	1.3	State the time of harvest of legume						
		crops				_ \		
	1.4	Distinguish between mature and					1	
		immature legume crop			1			
				Н,	4			
102	2.1	Describe harvesting methods of						
LO 2		legume crops	-		Y			$\perp$
Know Harvesting and	2.2	Operate Different harvesting						
Harvesting Procedures	-	implements		<b>/</b>				$\bot$
That vesting 1 to ceautes	2.3	Explain the importance of handling						
	2.4	during harvesting		$\perp$				_
	2.4	Ensure that right implements are						
	2.5	used during harvesting		1				_
	2.5	Carry out the maintenance of						
		harvesting implements						_
LO 3	3.1	Define post-harvest loss		$\prod$				
<b>Know Post Harvest Loss</b>	3.2	Classify post-harvest loss						
	3.3	State causes of post-harvest loss						
	3.4	Explain measures of preventing						
		post-harvest loss						
	3.5	Explain impact of post-harvest loss						

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

#### UNIT 009: PROCESSING AND STORAGE OF LEGUME CROP PRODUCTS

**Unit reference number:** AGR/CRP/009/L2

Level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required to demonstrate understanding of handling, processing, storage and marketing of legume product.

#### **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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.
- 6. Product of the learners work.
- 7. Assignment

**Unit 009:** Processing and Storage of Legume Crop Products

	anu s	Storage of Legume Crop Products		• 1			_	• •		
LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence Evid Ref.			nce				
(LO)		(PC)	Ty							
			· -		ge l	No.				
The learner will:		The learner can:								
L01	1.1	Distinguish between various								
Know Legume Crop		processing methods of legume crop								
Handling and Processing	1.2	Describe methods of handling								
		harvested legume crops								
	1.3	Carryout processing of legume crops						<		
		such as; picking, threshing,								•
		winnowing etc						X	7	
	1.4	State the importance of each of the				,		) (	+	7
	1	processes in 1.2 above.								
	1.5	Determine the moisture content and							+	-
	1.5	other quality parameters using test	_							
		kit.		X						
		Mt.								
	2.1	Describe the different methods of								
	2.1		7							
LO 2	2.2	storage of legume crops.							+	_
	2.2	Carryout cleaning of store using								
W C. CI		simple equipment. (mist sprayer,								
Know Storage of Legume	2.2	dusters, etc)							+	_
Crops	2.3	Explain the working principles of								
		each equipment used in 2.2 above.							4	
	2.4	Describe the appropriate methods of								
		storing legume crop products.							4	
	2.5	Distinguish between various								
		products derived from legume crops							_	
	2.6	Describe the best moisture content								
	Ì	for legume crops storage								
LO 3:	3.1	Explain the relevance of packaging								
Know Packaging		in legume crop processing								
	3.2	Describe the benefits of the								
		following:								
		Batch number								
		Production date								
		Best before date								
		Nutritional value								
	3.3	Carryout legume crops packaging								٦
( ) >		procedures								
		_								
~	3.4	List the steps involved in legume						1	$\top$	-
		crops packaging procedure								
ļ		<u>L</u>		<u> </u>	<u> </u>					_

IQAM Signature (if sampled)  Date:  EQAM Signature (if sampled)	IQAM Signature (if sampled)  Date:	Learners Signature:	Date:
EQAM Signature (if sampled)  Date:	EQAM Signature (if sampled)  Date:	Assessors Signature:	Date:
		IQAM Signature (if sampled)	Date:
	ALIBORED FOR THE CHIMICAL HEDITCA.	EQAM Signature (if sampled)	Date:
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# UNIT 010: TRANSPORT AND MARKETING OF LEGUME CROP

**Unit reference number:** AGR/CRP/010/L2

NSQ Level: 2

Credit value: 4

**Guided learning hours:** 40 hours

**Unit Purpose:** This unit is designed to provide learners with the knowledge and skills required to demonstrate understanding of the fundamentals of transportation and marketing of legume crops and 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. Questioning
- 2. Direct Observation of the learner's performance
- 3. Recognition of Prior Learning and experience
- 4. Authentic statement/Witness testimony
- 5. Personal statement/reflective account.)
- 6. Product of the learners work.
- 7. Assignment

**Unit 010:** Transport and Marketing of Legume Crop

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence Ev		ide	ence		
(LO)		(PC)	Type Ref. Page		Ref. Page No.			
The learner will:		The learner can:						
LO1	1.1	Explain appropriate means of						
Know the Transportation		transporting legume crops						
Know the Transportation	1.2	Describe the means of transporting						
of Legume Crop Products		legume crops.						
	1.3	Ensure that crop products are properly						
		loaded						
LO 2	2.1	Explain how to standardize/grade			× ×		)	
Vnow Cradina		legume crops/product for national or						
Know Grading/		international markets		۲,				
Standardization of Legume Crop/Products	2.2	Determine the appropriate methods of	_	5				
Crop/Products		weighing legume crop/products for the						
		market						
	2.3	Prepare legume crops/products for						
		marketing.						
LO 3	3.1	Identify market for the products						
Know Marketing of	3.2	Explain the marketing requirement of						
Legume Crops/Products		legume crops						
_	3.3	Determine marketing strategies						
		<b>Y</b>						
	3.4	Know how to measure the products						
		for marketing						

Learners Signature:	Date:
Assessors Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

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