HARVEST THE CROP

UNIT CODE: AGR/OS/EXT/CR/03/4

UNIT DESCRIPTION

This unit specifies the competencies required to harvest a crop. It includes preparing to harvest, harvesting and post-harvesting operations, and evaluation of crop produce, forage conservation, waste management and documentation.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
	These are assessable statements which specify the
These describe the key outcomes which make up workplace function	required level of performance for each of the elements
(to be stated in active voice)	(to be stated in passive voice)
(to be stated in active voice)	Bold and italicized terms are elaborated in the Range
1. Prepare to harvest the crop	1.1 Maturity of the crop is determined based on the
	maturity indices of the crop
	1.2 Tools, equipment, materials and machines are
	assembled according to the crop
	1.3 Store place is prepared according to <i>food safety</i>
	practices.
2. Harvest the crop	2.1 <i>Harvesting</i> is done timely according to the crop
	type.
	2.2 Harvested produce is packed well based on the
	crop type
	2.3 The packed produce is assembled at the collection
	point or the store according to the crop type and
	work policy
3. Carry out post-harvesting	3.1 Produce is cleaned according to GAP.
operations	3.2 Sorting of produce is carried out depending on the
	crop type.
	3.3 Grading is done according to the crop's <i>grading</i>
	criteria.
	3.4 Produce is weighed and packaged according to the
	type of crop

		3.5	Produce is treated for preservation based on GAP
		3.6	Produce is correctly stored depending on the type
			of the produce and stores management procedure.
4.	Evaluate crop produce	4.1	The quality of the crop produce is evaluated
			according to the crop quality parameters
		4.2	The quantity of the crop produce is evaluated
			based on the crop yield parameters
5.	Conserve forage	5.1	Forage conservation <i>method</i> is chosen according
			to the fodder available and farm policy
		5.2	Materials are prepared for preservation depending
			on the method chosen
		5.3	Tools/equipment/machines are identified
			according to method chosen
		5.4	The forage is properly preserved depending on the
			method chosen
6.	Complete crop harvesting	6.1	Waste and recyclable materials are collected and
			sorted according to workplace policy
		6.2	Tools are cleaned according to the manufacturer's
			instructions
		6.3	Equipment and machines are maintained according
			to workplace procedures
		6.4	Tools/equipment/machines are stored according to
		5	the manufacturer's manual and workplace policy
	6	6.5	Proper records of the harvesting activities are kept
	0		as per the work place policy.
		6.6	Unused materials are stored as per the
			manufacturer's instructions and workplace policy.

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

VARIABLE	RANGE (May include but are not limited to :)
Tool, equipment, materials and	Tools:
machines	- Fork
	- Jembe
	- Hoe
	- Knives
	- Panga
	- Sickle
	- Wheelbarrow
	Equipment
	- Weighing Balances
	Materials:
	- Baskets
	- Labeled Crates/cartons
	- Sacks/bags
	- Twines
	- Stationeries
	- Litter bins
	- Grading tables
	• Machinery:
	- Baler
	- Combine harvesters
	- Forage harvester
	- Mowers
	- Potato harvesters
	- Tractor
Motovites in dia co	- Air conditioned vans
Maturity indices	• Change of colour
	Size of the produce
	Hardness of the fruit or tuber
	Moisture content

Food safety practice	Dampness
	Aeration
	Contamination
	 Physical injuries to the produce
Harvesting	
Traivesting	Picking Divisions
	Plucking Disging out
	Digging out The difference of the second of the seco
	• Threshing
	• Mowing
	Combine harvesting
	Cutting
Good Agricultural Practices	Correct tools
(GAP)	• Clean
	Correct use of tools and equipment
	Winnowing
	Seed dressing
	Chemical treatment
	Safely measures applied
Grading criteria	Size of the produce
	• Colour
	Type of the produce
	• Shape
	Breakages
Crop quality parameters	Colour
	Taste
	• Size
	Texture
	• Shape
	Moisture content
	Presence of pests and disease causing organisms
Forage conservation method	Silage making
	Hay making
	Standing hay
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Workplace policy	Stores management policy
	 Produce handling and transportation
	Harvesting waste management policy
	 Produce sorting and grading policy

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required Skills

The individual needs to demonstrate the following skills:

- Materials, tools, equipment and machines Handling
- Measurement
- Perceptual (visual, tactile)
- Post-harvest crop handling
- Grading and sorting
- Recording
- Tools, equipment and machines servicing and maintenance
- Use of personal protective equipment

Required Knowledge

The individual needs to demonstrate knowledge of:

- Basic machine operations
- Tools, equipment and materials used in harvesting
- Crop maturity indices
- Post-harvest crop pests and diseases and their management
- Harvesting methods
- Health, hygiene, safety and environment
- Post-harvest crop handling practices
- Stores management
- Farm Records

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1.	Critical Aspects	Assessment requires evidence that the candidate:	
	of Competency	1.1 Gathered materials/tools/equipment/machines correctly	
		1.2 Observed laid down environmental workplace policy well	
		1.3 Keenly Observed safety measures	
		1.4 Timely determined the crop harvesting time and stage	
		1.5 Packed harvested crop properly	
		1.6 Stored harvested produce properly	
		1.7 Preserved forage correctly	
		1.8 Maintained tools, equipment and machines correctly	
		1.9 Handled crop residues well	
		1.10 Handled wastes safely	
		1.11 Documented crop harvesting activities correctly	
2.	Resource	The following resources must be provided:	
	Implications	2.1 Assessment location- functional farm with crop that are ready for	
		harvesting, harvesting tools, equipment and machineries as well as	
		stores for the produce	
		2.2 Personal protective equipment	
		2.3 packing materials,	
3.	Methods of	Competency in this unit may be assessed through:	
	Assessment	3.1 Observation	
		3.2 Oral interview	
		3.3 Written exam	
		3.4 Third party report	
4.	Context of	Competency may be assessed on the job, off the job or a combination of	
	Assessment	these. Off the job assessment must be undertaken in a closely simulated	
		workplace environment.	
5.	Guidance	Holistic assessment with other units relevant to the industry sector,	
	information for	workplace and job role is recommended.	
	assessment		