

PRODUCE ANNUAL CROPS

UNIT CODE: 0811 551 11A

TVET CDACC UNIT CODE:

AGR/OS/EXT/CR/02/4/MA

UNIT DESCRIPTION

This unit specifies competencies required to produce annual crops. It involves preparing land, establishing and managing selected annual crops. It also involves harvesting and storage as well as processing and marketing of the selected annual crops

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which makeup work place function .	PERFORMANCECRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>(Bold and italicized terms are elaborated in the range).</i>
1. Prepare planting materials	1.1 Personal protective equipment is donned as per work requirement 1.2 Tools and equipment are assembled as per work requirement 1.3 Planting materials are obtained as per crop requirement
2. Prepare crop seedbed	2.1 Personal protective equipment is donned as per work requirement 2.2 Land preparation tools and equipment are assembled as per work requirement 2.3 Land is cleared as per agronomic requirements 2.4 Tillage operations are carried out as per agronomic requirements 2.5 Soil conservation measures are applied as per work procedure 2.6 Records are prepared as per work procedure
3. Plant Annual crops	3.1 Personal protective equipment is donned as per work requirement 3.2 Farm inputs are assembled as per work requirement 3.3 Annual crop is established as per crop requirements 3.4 Records are prepared as per work procedure

4. Manage Annual crops	4.1 Personal protective equipment is donned as per work requirement 4.2 Farm inputs are assembled as per work requirement 4.3 Field management practice is carried out as per crop agronomic requirements 4.4 Records are prepared as per work procedure
5. Harvest Annual crops	5.1 Personal protective equipment is donned as per work requirement 5.2 Harvesting tools and equipment are assembled as per work requirement 5.3 Maturity indices are applied in determining crop maturity as per market demand 5.4 Harvesting method is applied as per crop requirement 5.5 Records are prepared as per work procedure
6. Process annual crop products	6.1 Personal protective equipment is donned as per work requirement 6.2 Processing tools, equipment and machines are assembled as per work requirement 6.3 Processing of annual crop is carried out as per work procedure 6.4 Products are marketed as per workplace procedure 6.5 Records are prepared as per work procedure

RANGE

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

1. Personal protective equipment includes but not limited to:	• Overall or over coat • Gumboots • Gloves • Head gear • Face mask
2. Land preparation tools and equipment includes but not limited to:	○ Tools • Land clearing tools/equipment/machinery • Axes • Panga • Rake • Slasher • Tillage tools/equipment/machinery

	• Fork jembe • Harrows • Hoe • Tractor ○ Equipment • Mower • Rotavator • Wheelbarrow • Ridgers • Moulboard plough • Disc plough • Disc harrow
3. Planting materials includes but not limited to:	• Seeds and seedlings • Splits • Crowns • Slips, cuttings and sucker
4. Tillage operations include but not limited to;	• Primary cultivation • Secondary cultivation • Tertiary operations
5. Soil conservation measures include but not limited to;	• Contour planting • Terraces • Gabbions • Mulching • Cover cropping • Minimum tillage • Crop rotation • Intercropping
6. Farm inputs includes but not limited to;	• Fertilizers • Seeds • Vegetative propagation materials • manures

7. Field management practices include but are not limited to:	• Watering • Mulching • Gapping • Thinning • Crop protection from weeds, pests and diseases • Training • Fertilizer application • Pruning
8. Harvesting tools and equipment include but not limited to;	• Sickle • Axe • Harrow • Chopper
9. Harvesting methods include but not limited to;	• Hand picking • Use of tools • Use of machinery
10. Annual crops include but not limited to:	• wheat • Rice • Maize • Millet • Sorghum • Beans • Soya • Beans • Pigeon peas • Sunflower • Cotton • Tobacco • Sweet potatoes • Cassava
11. Records include but not limited to;	• Inventory records • Financial records • Yield and production records • Payroll and labour records • Farm input utilization record

12. Processing tools and equipment include but not limited to;	• Blender • Motar and pestle • Weighing scale • Knives/cutting materials • Weighing cup • Bowl choppers • bandsaws • slicers • Marinating vacuum tumblers • Peelers
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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 of Competency	Assessment requires evidence that the candidate: 1.1 Donned Personal Protective Equipment (PPE) as per work requirement 1.2 Planting materials was obtained as per crop requirement 1.3 Carried out tillage operations as per agronomic requirements 1.4 Soil conservation measures were applied as per work procedure 1.5 Annual crop was established as per crop requirements 1.6 Field management practice was carried out as per crop agronomic requirements 1.7 Harvesting tools and equipment was assembled as per work requirement 1.8 Maturity index was applied in determining crop maturity as per market demand 1.9 Harvesting method was applied as per crop requirement
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	1.10 Processing tools, equipment and machines was assembled as per work requirement 1.11 6.3 Processing of annual crop was carried out as per work procedure 1.12 6.4 Product was marketed as per workplace procedure 1.13 Record was prepared as per work procedure
2. Resource Implications (required for assessment)	The following resources should be provided: 2.1 Appropriately simulated environment where assessment can take place 2.2 Access to relevant workplace assessment environment 2.3 Resources relevant to the proposed assessment activity or tasks
3. Methods of Assessment	Competency may be assessed through: 3.1 Practical assessment 3.2 Project 3.3 Portfolio of evidence 3.4 Third party report 3.5 Written assessment 3.6 Oral assessment
4. Context of Assessment	This competency may be assessed in a workplace or in a simulated workplace.
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.