



**REPUBLIC OF KENYA**

**NATIONAL OCCUPATIONAL STANDARDS**

**FOR**

**AGRI-PRENEUR**

**LEVEL 6  
(CYCLE 3)**

**OCCUPATIONAL STANDARDS ISCED CODE: 0811 554 A**



**TVET CDACC  
P.O. BOX 15745-00100 NAIROBI**

## CARRY OUT CROP PRODUCTION

ISCED UNIT CODE: 0811 551 21A

TVETCDACC UNIT CODE: AG/OS/PN/CR/01/6/MA

### UNIT DESCRIPTION

This unit specifies the competencies required by a Agri-enterprise technologist level 6 to apply crop production principles. It involves production of annual crops, production of perennial crops and production of horticulture.

### ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace functions	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. Produce annual crops	1.1 <i>Personal protective equipment</i> are worn as per work requirement 1.2 <i>Land preparation tools and equipment</i> are assembled as per work requirement 1.3 <i>Land preparation practices</i> is performed as per work requirement 1.4 <i>Planting materials</i> are prepared as per work requirement 1.5 <i>Planting methods</i> are applied as per work requirement 1.6 <i>Crop routine management</i> practices is carried out as per work requirement 1.7 <i>Crop harvesting methods</i> are applied as per work requirement
2. Produce perennial	2.1 <i>Personal protective equipment</i> are worn as per work

crops	<p>requirement</p> <p>2.2 <b><i>Land preparation tools and equipment</i></b> are assembled as per work requirement</p> <p>2.3 <b><i>Land preparation practices</i></b> is performed as per work requirement</p> <p>2.4 <b><i>Planting materials</i></b> are prepared as per work requirement</p> <p>2.5 <b><i>Planting methods</i></b> are applied as per work requirement</p> <p>2.6 <b><i>Crop routine management</i></b> practices is carried out as per work requirement</p> <p>2.7 <b><i>Crop harvesting methods</i></b> are applied as per work requirement</p>
3. Produce horticulture crops	<p>3.1 <b><i>Personal protective equipment</i></b> are worn as per work requirement</p> <p>3.2 <b><i>Land preparation tools and equipment</i></b> are assembled as per work requirement</p> <p>3.3 <b><i>Land preparation practices</i></b> is performed as per work requirement</p> <p>3.4 <b><i>Planting materials</i></b> are prepared as per work requirement</p> <p>3.5 <b><i>Planting methods</i></b> are applied as per work requirement</p> <p>3.6 <b><i>Crop routine management</i></b> practices is carried out as per work requirement</p> <p>3.7 <b><i>Crop harvesting methods</i></b> are applied as per work requirement</p>

## RANGE

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

Variable	Range
1. Personal protective equipment may include but are not limited to:	<ul style="list-style-type: none"> <li>• Overall</li> <li>• Headgear</li> <li>• Gloves</li> </ul>

	<ul style="list-style-type: none"> <li>• Gumboots</li> <li>• Goggles</li> </ul>
2. Land preparation tools and equipment may include but are not limited to	<ul style="list-style-type: none"> <li>• Land clearing tools and equipment</li> <li>• Tillage tools and equipment</li> </ul>
3. Land preparation practices may include but are not limited to	<ul style="list-style-type: none"> <li>• Land clearing</li> <li>• Primary cultivation</li> <li>• Secondary cultivation</li> <li>• Tertiary practices</li> </ul>
4. Planting materials may include but are not limited to	<ul style="list-style-type: none"> <li>• Seeds</li> <li>• Splits</li> <li>• Suckers</li> <li>• Corms</li> <li>• Slips</li> <li>• Setts</li> <li>• Cuttings</li> </ul>
5. Crop routine management may include but are not limited to	<ul style="list-style-type: none"> <li>• Pruning</li> <li>• Irrigation</li> <li>• Pest control</li> <li>• Disease control</li> <li>• Weeding</li> <li>• Staking</li> <li>• Propping</li> <li>• De-suckering</li> <li>• Fertilizer application</li> <li>• Trellising</li> <li>• Mulching</li> <li>• Gapping</li> <li>• Thinning</li> </ul>
6. Crop harvesting methods may	<ul style="list-style-type: none"> <li>• Picking</li> </ul>

include but are not limited to	<ul style="list-style-type: none"> <li>• Cutting</li> <li>• Plucking</li> <li>• Digging</li> </ul>
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## **REQUIRED KNOWLEDGE AND SKILLS**

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

### **Required knowledge**

The individual needs to demonstrate knowledge of:

- Utilization of tools and equipment
- Fertilizer application
- Routine crop management practices
- Farm machinery operation

### **Required skills**

The individual needs to demonstrate the following skills:

- Planting skills
- Pest and disease control skills
- Land clearing practices
- Tertiary operation practices
- Irrigation techniques
- Treatment of planting materials

## **EVIDENCE GUIDE**

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

1. Critical aspects of competency	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Performed land preparation practices as per work requirement</li> <li>1.2 Prepared planting materials as per work requirement</li> <li>1.3 Applied planting methods as per work requirement</li> <li>1.4 Carried out crop routine management practices as per work requirement</li> <li>1.5 Applied crop harvesting methods as per work requirement</li> </ul>
2. Resource implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Appropriately simulated environment where assessment can take place</li> <li>2.2 Access to relevant work environment</li> <li>2.3 Resources relevant to the proposed activities or tasks</li> </ul>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> <li>5.2 Practical</li> <li>5.3 Project</li> <li>5.4 Third party report</li> <li>5.5 Portfolio of evidence</li> <li>5.6 Written tests</li> <li>5.7 Oral questioning</li> </ul>
6. Context of Assessment	<p>6.1 This competency may be assessed in a work place or in a simulated work place.</p>
7. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector and workplace job role is recommended.</p>