



**REPUBLIC OF KENYA**

**COMPETENCY- BASED MODULAR CURRICULUM**

**FOR**

**AGRIPRENEURSHIP**

**KNQF LEVEL 6  
(CYCLE 3)**

**ISCED PROGRAMME CODE: 0811 554A**



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

## CROP PRODUCTION

**ISCED UNIT CODE:** 0811 551 10A

**TVETCDACC UNIT CODE:** AQ/CU/PN/CR/01/6/MA

### **Relationship to Occupational Standards**

This unit addresses the unit of competency: Principles of crop production

**Duration of Unit:** 320 HOURS

### **UNIT DESCRIPTION**

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

### **Summary of learning outcomes**

By the end of this unit of learning, the trainee should be able to:

<b>S/No</b>	<b>Learning Outcomes</b>	<b>Duration (Hours)</b>
1.	Produce annual crops	100
2.	Produce perennial crops	110
3.	Produce horticulture crops	110
<b>Total</b>		<b>320</b>

### **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning outcomes</b>	<b>Content</b>	<b>Suggested assessment methods</b>
1. Produce annual crops	<p>1.1 Personal protective equipment</p> <p>1.1.1 Types</p> <ul style="list-style-type: none"><li>• Overall</li><li>• Headgear</li><li>• Gloves</li><li>• Gumboots</li><li>• Goggles</li></ul>	<ul style="list-style-type: none"><li>• Practical</li><li>• Project</li><li>• Third party report</li><li>• Portfolio of evidence</li><li>• Written tests</li><li>• Oral questioning</li></ul>

	<p>1.1.1 Uses</p> <p><b>1.2 Land preparation tools and equipment</b></p> <p>1.2.1 Land clearing tools and equipment</p> <p>1.2.2 Tillage tools and equipment</p> <p><b>1.3 Land preparation practices</b></p> <p>1.3.1 Land clearing</p> <p>1.3.2 Primary cultivation</p> <p>1.3.3 Secondary cultivation</p> <p>1.3.4 Tertiary practices</p> <p><b>1.4 Planting materials</b></p> <p>1.4.1 Seeds</p> <p>1.4.2 Vegetative materials</p> <p><b>1.5 Planting methods</b></p> <p><b>1.6 Crop routine management practices</b></p> <p>1.6.1 Irrigation</p> <p>1.6.2 Pest control</p> <p>1.6.3 Disease control</p> <p>1.6.4 Weeding</p> <p>1.6.5 Staking</p> <p>1.6.6 De-suckering</p> <p>1.6.7 Fertilizer application</p> <p>1.6.8 Trellising</p> <p>1.6.9 Mulching</p> <p>1.6.10 Gapping</p> <p>1.6.11 Thinning ...</p> <p><b>1.7 Crop harvesting</b></p>	
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	<p><b>methods</b></p> <p>1.7.1 Picking 1.7.2 Cutting 1.7.3 Digging 1.7.4 Uprooting ...</p>	
2. Produce perennial crops	<p><b>2.1 Personal protective equipment</b></p> <p>2.1.1 -Types</p> <ul style="list-style-type: none"> <li>• Overall</li> <li>• Headgear</li> <li>• Gloves</li> <li>• Gumboots</li> <li>• Goggles</li> </ul> <p>2.1.2 -Uses</p> <p><b>2.2 Land preparation tools and equipment</b></p> <p><b>2.3 Land preparation practices</b></p> <p>2.3.1 Land clearing 2.3.2 Primary cultivation 2.3.3 Secondary cultivation 2.3.4 Tertiary practices</p> <p><b>2.4 Planting materials</b></p> <p>2.4.1 Seeds</p> <p>2.4.1 Splits 2.4.2 Suckers 2.4.3 Corms 2.4.4 Slips 2.4.5 Setts 2.4.6 Cutting 2.4.7 Vegetative materials</p> <p><b>2.5 Planting methods</b></p> <p><b>2.6 Crop routine</b> management practices</p> <p>2.6.1 Pruning 2.6.2 Irrigation 2.6.3 Pest control</p>	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests</li> <li>• Oral questioning</li> </ul>

	<p>2.6.4 Disease control</p> <p>2.6.5 Weeding</p> <p>2.6.6 Propping</p> <p>2.6.7 De-suckering</p> <p>2.6.8 Fertilizer application</p> <p>2.6.9 Trellising</p> <p>2.6.10 Mulching</p> <p>2.6.11 Gapping</p> <p>2.6.12 Thinning</p> <p><b>2.7 Crop harvesting methods</b></p> <p>2.7.1 Picking</p> <p>2.7.2 Cutting</p> <p>2.7.3 Plucking</p> <p>2.7.4 Digging</p>	
3 Produce horticulture crops	<p><b>3.1 Personal protective equipment</b></p> <p>3.1.1 Type</p> <ul style="list-style-type: none"> <li>• Overall</li> <li>• Headgear</li> <li>• Gloves</li> <li>• Gumboots</li> <li>• Goggles</li> </ul> <p>3.1.2 uses</p> <p><b>3.2 Land preparation tools and equipment</b></p> <p>3.2.1 Land clearing tools and equipment</p> <p>3.2.2 Tillage tools and equipment</p> <p><b>3.3 Land preparation practices</b></p> <p>3.3.1 Land clearing</p> <p>3.3.2 Primary cultivation</p> <p>3.3.3 Secondary cultivation</p> <p>3.3.4 Tertiary practices</p> <p><b>3.4 Planting materials</b></p>	<ul style="list-style-type: none"> <li>• Project</li> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests</li> <li>• Oral questioning</li> </ul>

	<p>3.4.1 Seeds</p> <p>3.4.2 Splits</p> <p>3.4.3 Suckers</p> <p>3.4.4 Corms</p> <p>3.4.5 Slips</p> <p>3.4.6 Setts</p> <p>3.4.7 Cuttings</p> <p><b>3.5 Planting methods</b></p> <p><b>3.6 Crop routine management practices</b></p> <p>3.6.1 Pruning</p> <p>3.6.2 Irrigation</p> <p>3.6.3 Pest control</p> <p>3.6.4 Disease control</p> <p>3.6.5 Weeding</p> <p>3.6.6 Staking</p> <p>3.6.7 Propping</p> <p>3.6.8 De-suckering</p> <p>3.6.9 Fertilizer application</p> <p>3.6.10 Trellising</p> <p>3.6.11 Mulching</p> <p>3.6.12 Gapping</p> <p>3.6.13 Thinning</p> <p><b>3.7 Crop harvesting methods</b></p> <p>3.7.1 Picking</p> <p>3.7.2 Cutting</p> <p>3.7.3 Plucking</p> <p>3.7.4 digging</p>	
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### **Suggested method of delivery**

- Project
- Demonstration
- Practicals
- Discussions
- Direct instruction

### **Recommended resources for 25 trainees**

S/No	Item/Category	Description/Specification	Quantity	Recommended Ratio (Item: Trainee)
A	<b>Learning Materials</b>			
	Text books	Livestock production books	5	1:5
B	<b>Learning Facilities &amp; infrastructure</b>			
	classroom		1	1:25
	greenhouse		1	1:25
	Farm		1	1:25
	Pesticides		1	1:25
	fertilizer		1	1:25
C	<b>Consumable materials</b>			
	notebooks	A4 SIZE	25	1:1
	Flip chart		1	1:25
	White board		1	1:25
	Marker pens	Erasable	2	1:13
D	<b>Tools and Equipment</b>			
	Projectors	EPSON 2788 LUMEN or any brand	1	1:25
	Computers /smartphone	Any brand-5 <sup>th</sup> generation and above Core i5	5	1:5
	internet	Reliable and fast		
			5	1:5