

## 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:

S/No	Learning Outcomes	Duration (Hours)
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

Learning outcomes	Content	Suggested assessment methods
1. Produce annual crops	1.1 Personal protective equipment 1.1.1 Types <ul style="list-style-type: none"><li>• Overall</li><li>• Headgear</li><li>• Gloves</li><li>• Gumboots</li><li>• Goggles</li></ul> 1.1.1 Uses	<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></ul>

	<p>1.2 Land preparation tools and equipment</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 methods</b></p> <p>1.7.1 Picking</p> <p>1.7.2 Cutting</p> <p>1.7.3 Digging</p> <p>1.7.4 Uprooting ...</p>	<ul style="list-style-type: none"> <li>• Oral questioning</li> </ul>
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> </ul>	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> </ul>

	<ul style="list-style-type: none"> <li>• Goggles</li> </ul> <p>2.1.2 -Uses</p> <p><b>2.2 Land preparation tools and equipment</b></p> <p>2.3 <b>Land preparation</b> practices</p> <p>2.3.1 Land clearing</p> <p>2.3.2 Primary cultivation</p> <p>2.3.3 Secondary cultivation</p> <p>2.3.4 Tertiary practices</p> <p><b>2.4 Planting materials</b></p> <p>7.4.1 Seeds</p> <p>2.4.1 Splits</p> <p>2.4.2 Suckers</p> <p>2.4.3 Corms</p> <p>2.4.4 Slips</p> <p>2.4.5 Setts</p> <p>2.4.6 Cutting</p> <p>2.4.7 Vegetative materials</p> <p><b>2.5 Planting methods</b></p> <p>2.6 <b>Crop routine</b> management practices</p> <p>2.6.1 Pruning</p> <p>2.6.2 Irrigation</p> <p>2.6.3 Pest control</p> <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>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Oral questioning</li> </ul>
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	2.7.4 Digging	
3 Produce horticulture crops	<b>3.1 Personal protective equipment</b> 3.1.1 Type <ul style="list-style-type: none"> <li>• Overall</li> <li>• Headgear</li> <li>• Gloves</li> <li>• Gumboots</li> <li>• Goggles</li> </ul> 3.1.2 uses <b>3.2 Land preparation tools and equipment</b> 3.2.1 Land clearing tools and equipment 3.2.2 Tillage tools and equipment <b>3.3 Land preparation practices</b> 3.3.1 Land clearing 3.3.2 Primary cultivation 3.3.3 Secondary cultivation 3.3.4 Tertiary practices <b>3.4 Planting materials</b> 3.4.1 Seeds 3.4.2 Splits 3.4.3 Suckers 3.4.4 Corms 3.4.5 Slips 3.4.6 Setts 3.4.7 Cuttings <b>3.5 Planting methods</b> <b>3.6 Crop routine management practices</b> 3.6.1 Pruning 3.6.2 Irrigation 3.6.3 Pest control 3.6.4 Disease control 3.6.5 Weeding 3.6.6 Staking 3.6.7 Propping 3.6.8 De-suckering 3.6.9 Fertilizer application	<ul style="list-style-type: none"> <li>• Project Practical</li> <li>• Project</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Written tests</li> <li>• Oral questioning</li> </ul>

	3.6.10 Trellising 3.6.11 Mulching 3.6.12 Gapping 3.6.13 Thinning <b>3.7 Crop harvesting methods</b> 3.7.1 Picking 3.7.2 Cutting 3.7.3 Plucking 3.7.4 digging	
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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

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