

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
Total		320

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 • Overall • Headgear • Gloves • Gumboots • Goggles 1.1.1 Uses	<ul style="list-style-type: none">• Practical• Project• Third party report• Portfolio of evidence• Written tests

	<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>1.3 Land preparation practices</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>1.4 Planting materials</p> <p>1.4.1 Seeds</p> <p>1.4.2 Vegetative materials</p> <p>1.5 Planting methods</p> <p>1.6 Crop routine management practices</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>1.7 Crop harvesting methods</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"> • Oral questioning
2. Produce perennial crops	<p>2.1 Personal protective equipment</p> <p>2.1.1 -Types</p> <ul style="list-style-type: none"> • Overall • Headgear • Gloves • Gumboots 	<ul style="list-style-type: none"> • Practical • Project • Third party report • Portfolio of evidence

	<ul style="list-style-type: none"> • Goggles <p>2.1.2 -Uses</p> <p>2.2 Land preparation tools and equipment</p> <p>2.3 Land preparation 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>2.4 Planting materials</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>2.5 Planting methods</p> <p>2.6 Crop routine 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>2.7 Crop harvesting methods</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"> • Written tests • Oral questioning
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	2.7.4 Digging	
3 Produce horticulture crops	<p>3.1 Personal protective equipment</p> <p>3.1.1 Type</p> <ul style="list-style-type: none"> • Overall • Headgear • Gloves • Gumboots • Goggles <p>3.1.2 uses</p> <p>3.2 Land preparation tools and equipment</p> <p>3.2.1 Land clearing tools and equipment</p> <p>3.2.2 Tillage tools and equipment</p> <p>3.3 Land preparation practices</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>3.4 Planting materials</p> <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>3.5 Planting methods</p> <p>3.6 Crop routine management practices</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>	<ul style="list-style-type: none"> • Project Practical • Project • Third party report • Portfolio of evidence • Written tests <ul style="list-style-type: none"> • Oral questioning

	<p>3.6.10 Trellising 3.6.11 Mulching 3.6.12 Gapping 3.6.13 Thinning</p> <p>3.7 Crop harvesting methods</p> <p>3.7.1 Picking 3.7.2 Cutting 3.7.3 Plucking 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	Learning Materials			
	Text books	Livestock production books	5	1:5
B	Learning Facilities & infrastructure			
	classroom		1	1:25
	greenhouse		1	1:25
	Farm		1	1:25
	Pesticides		1	1:25
	fertilizer		1	1:25
C	Consumable materials			
	notebooks	A4 SIZE	25	1:1
	Flip chart		1	1:25

	White board		1	1:25
	Marker pens	Erasable	2	1:13
D	Tools and Equipment			
	Projectors	EPSON 2788 LUMEN or any brand	1	1:25
	Computers /smartphone	Any brand-5 th generation and above Core i5	5	1:5
	internet	Reliable and fast		
			5	1:5