

## VINE FRUITS PRODUCTION

**ISCED UNIT CODE:** 0812 551 10A

**TVET CDACC UNIT CODE:** HO/CU/HP/CR/02/5/MA

**Unit duration:** 140 Hours

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Produce vine fruits**

### Unit Description

This unit specifies the competencies required to produce quality and clean vine fruits. It involves establishing vine fruits nursery, establishing vine fruits orchard, managing vine fruits and performing vine fruits post-harvest practices.

### Summary of Learning Outcomes

SNO	Learning Outcome	Duration (Hours)
1.	Establish vine fruits nursery	20
2.	Establish vine fruits orchard	40
3.	Manage vine fruits	50
4.	Perform vine fruits post-harvest practices	30
	<b>TOTAL</b>	<b>140</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Establish vine fruits	<b>Theory</b> 1.7 Nursery site selection	<ul style="list-style-type: none"><li>• Written tests</li><li>• Reflection papers</li></ul>

nursery	<p>1.7.1 Definition of vine fruits</p> <p>1.7.2 Importance of nursery site selection</p> <p>1.7.3 Factors considered when siting a nursery</p> <p>1.7.4 Tools, equipment and materials used</p> <p>1.7.4.1 Panga</p> <p>1.7.4.2 Jembe</p> <p>1.7.4.3 Slashers</p> <p>1.7.4.4 Rake</p> <p>1.8 Nursery preparation</p> <p>1.9 Planting seeds in a nursery</p> <p>1.10 Nursery management practices</p> <p>1.10.1 Mulching</p> <p>1.10.2 Shading</p> <p>1.10.3 Hardening off</p> <p>1.10.4 Watering</p> <p>1.10.5 Fertilizer application</p> <p>1.10.6 Pest and diseases control</p> <p>1.10.7 Pricking out</p> <p><b>Practice</b></p> <p>1.11 Carry out a nursery bed preparation and planting</p> <p>1.12 Carry out nursery bed management practices</p>	<ul style="list-style-type: none"> <li>• Projects</li> <li>• Interviews/ Oral questions</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>
2. Establish vine fruits orchard	<p><b>Theory</b></p> <p>2.1 Orchard site selection</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> </ul>

	<p>2.1.1 Importance of an orchard</p> <p>2.1.2 Factors considered when siting an orchard</p> <p>2.2 Preparation of the land</p> <p>2.3 Planting of seedlings</p> <p>2.4 Field management practices</p> <p><b>Practice</b></p> <p>2.5 Carry out land preparation using various methods.</p> <p>2.6 Carry out planting of seedlings</p> <p>2.7 Carry out field management practices</p>	<ul style="list-style-type: none"> <li>• Projects</li> <li>• Interviews/ Oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>
3. Manage vine fruits	<p><b>Theory</b></p> <p>3.1 Field management practices</p> <p>3.1.1 Gapping</p> <p>3.1.2 Training</p> <p>3.1.2.1 Pruning</p> <p>3.1.2.2 Trellising</p> <p>3.1.2.3 Staking</p> <p>3.1.3 Fertilizer application</p> <p>3.1.4 Pest and disease control</p> <p>3.1.4.1 Causal agent</p> <p>3.1.4.2 Signs and symptoms</p> <p>3.1.5 Irrigation</p> <p>3.1.6 Mulching</p> <p>3.10 Harvesting of vine fruits</p> <p>3.11 Management of wastes</p> <p><b>Practice</b></p> <p>3.12 Carry out management practices</p>	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ Oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>

	using various methods 3.13 Carry out harvesting of vine fruits 3.14 Carry out management of waste in an orchard	
4. Perform vine fruits post-harvest practices	<b>Theory</b> 4.1 Post-harvest practices 4.2 Examples of post-harvest practices <ul style="list-style-type: none"> <li>1.2.1 Cooling</li> <li>1.2.2 Freezing</li> <li>1.2.3 Drying</li> <li>1.2.4 Grading</li> <li>1.2.5 Sorting</li> <li>1.2.6 Packaging</li> <li>1.2.7 Storage</li> <li>1.2.8 Transportation</li> </ul> 4.3 Marketing techniques <ul style="list-style-type: none"> <li>1.3.1 Online marketing</li> <li>1.3.2 Influencer marketing</li> <li>1.3.3 Public relation</li> </ul> 4.4 Management of wastes <b>Practice</b> 4.5 Carry out post-harvest practices using various methods 4.6 Carry out the management of waste	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ Oral questions</li> <li>• Individual/group assignments</li> </ul> Practicals

### Suggested Methods of Instruction

- Role playing
- Group discussion
- Direct instruction
- Role playing

- Group discussion
- Direct instruction
- Questionnaires
- Interviews
- Experiment
- Survey
- Observation

### Recommended Resources for 30 Trainees

General Resources	Tools and Equipment	Materials and Supplies
Source of water	25 Spray pumps	Seeds
Gutters	25 Watering cans	25 Suckers
25 Bucket	25 Hose pipes	Seedlings
25 Shears	25 Plough	25 Cuttings
25 Soil augur	25 Harrows	25 Tubers
25 Panga	25 Ridgers	25 Tissue culture
25 Hammer	25 Boom sprayer	25 Buds
25 Saw	25 Pruning saw	25 Corms
10 Flow meters	25 Wire strainer	25 Corms Pesticides
10 Pumps	25 Traps	Fertilizers
10 Sprinkler	25 Pipe sprinklers	25 Stationery
25 Dibbler	25 Scouting flags	Manures
	25 Storage tanks	25 Ropes
	25 Tractors	25 Nets
	25 Grading shed	25 Papers
	25 Bud count square	25 Fencing wire
	25 Meteorological equipment	25 Staking sticks

	25 Hoes	25 Nails
	25 Machetes	25 Herbicides
	25 Secateurs	Seeds

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