

## OIL CROPS PRODUCTION

**ISCED UNIT CODE:** 0812 551 20A

**TVET CDACC UNIT CODE:** HO/CU/HP/CR/01/6/MA

**Unit duration:** 100 Hours

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: **Produce oil crops**

### Unit Description

This unit specifies the competencies required to produce quality oil crops. It involves establishing oil crops nursery, establishing oil crops, performing oil crops post-harvest practices.

### Summary of Learning Outcomes

SNO	Learning Outcome	Duration (Hours)
1.	Establish oil crops nursery	20
2.	Establish oil crops orchard	25
3.	Manage oil crops fruits	30
4.	Perform oil crops post-harvest practices	25
	<b>TOTAL</b>	<b>100</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Establish oil crops nursery	<b>Theory</b> 1.1 Nursery site selection 1.1.1 Definition of oil crops 1.1.2 Importance of nursery site selection 1.1.3 Factors considered when siting a nursery	<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</li></ul>

	<p>1.1.4 Tools, equipment and materials used</p> <p>1.1.4.1 Panga</p> <p>1.1.4.2 Jembe</p> <p>1.1.4.3 Slashers</p> <p>1.1.4.4 Rake</p> <p>1.2 Nursery preparation</p> <p>1.3 Planting seeds in a nursery</p> <p>1.4 Nursery management practices</p> <p>1.4.1 Mulching</p> <p>1.4.2 Shading</p> <p>1.4.3 Hardening off</p> <p>1.4.4 Watering</p> <p>1.4.5 Fertilizer application</p> <p>1.4.6 Pest and diseases control</p> <p>1.4.7 Pricking out</p> <p><b>Practice</b></p> <p>1.5 Carry out a nursery bed preparation and planting</p> <p>1.6 Carry out nursery bed management practices</p>	<ul style="list-style-type: none"> <li>• assignments</li> <li>• Practicals</li> </ul>
2. Establish oil crops orchard	<p><b>Theory</b></p> <p>2.1 Orchard site selection</p> <p>2.1.1 Definition of terms</p> <p>2.1.2 Importance of an orchard</p> <p>2.1.3 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>	<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>

	<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>	
3. Manage oil crops	<p><b>Theory</b></p> <p>3.1 Field management practices</p> <p>    3.1.1 Gapping</p> <p>    3.1.2 Thinning</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>3.2 Harvesting of oil crops</p> <p>3.3 Management of wastes</p> <p><b>Practice</b></p> <p>3.4 Carry out management practices using various methods</p> <p>3.5 Carry out harvesting of oil crops</p> <p>3.6 Carry out management of waste in an orchard</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>
4. Perform oil crops post-harvest practices	<p><b>Theory</b></p> <p>4.1 Post-harvest practices</p> <p>4.2 Examples of post-harvest practices</p> <p>    4.2.1 Cooling</p> <p>    4.2.2 Freezing</p> <p>    4.2.3 Drying</p> <p>    4.2.4 Grading</p> <p>    4.2.5 Sorting</p> <p>    4.2.6 Packaging</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> </ul>

	<p>4.2.7 Storage</p> <p>4.2.8 Transportation</p> <p>4.3 Marketing techniques</p> <p>4.3.1 Online marketing</p> <p>4.3.2 Influencer marketing</p> <p>4.3.3 Public relation</p> <p>4.4 Management of wastes</p> <p><b>Practice</b></p> <p>4.5 Carry out post-harvest practices using various methods</p> <p>4.6 Carry out the management of waste</p>	Practicals
--	---	------------

### Suggested Methods of Instruction

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

easyvet.com

### Recommended Resources for 25 Trainees

#### Tools

- 25 Hoes
- 25 Machetes
- 25 Secateurs
- 25 Shovels

- 25 Soil augur
- 25 Panga
- 25 Pegs

### **Equipment's**

- 25 Hammers
- 25 Saw
- 25 Buckets
- 25 Secateurs
- 25 Shears
- 25 Dibblers
- 25 Spray pumps
- 25 Watering cans
- 25 Hose pipes
- 25 Ploughs
- 25 Harrows
- 25 Ridges
- 25 Boom sprayer
- 25 Pruning saw
- 25 Wire strainers
- 25 Traps
- 25 Pipe sprinklers
- 25 Scouting flags
- 25 Storage tanks
- 25 Tractors
- 25 Grading shed
- 25 Bud count square
- 25 Meteorological equipment

### **Materials**

- 25 Pesticides
- Fertilizers

- 25 Stationery
- Manures
- 25 Seedlings /planting materials
- 25 Khaki paper bags size 3
- 25 Rope
- 25 Nets
- 25 Translucent papers
- 25 Papers
- 25 Papers
- 25 Fencing wire
- 25 Staking sticks
- 25 Nails
- 25 Herbicides
- 25 Pesticides
- 25 Pheromones
- 25 Seeds
- 25 Seedlings
- 25 Splits
- 25 Crowns
- 25 Slips
- 25 Cuttings
- 25 Suckers
- 25 Plantlets