

# HORTICULTURAL CROPS PRODUCTION

**UNIT CODE:** AGR/CU/EXT/CR/06/6/A

## Relationship to Occupational Standards

This unit addresses the Unit of Competency: produce horticultural crops

**Duration of Unit:**200 hours

## Unit Description

this unit specifies competencies required to produce horticultural crops, it involves determining horticultural crops to produce, procuring horticultural crop planting material, managing horticultural crop nursery, managing horticulture green houses, managing drip irrigation system, managing horticultural field and horticulture post-harvesting management

## Summary of Learning Outcomes

1. Determine horticultural crops to produce
2. Select/procure horticultural crop planting material
3. Manage horticultural crop nursery
4. Manage horticulture green houses
5. Manage drip irrigation system
6. Manage horticultural field
7. Horticulture post-harvest management

## Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Determine horticultural crops to produce	<ul style="list-style-type: none"><li>• Types of horticultural crops</li><li>• Principles of horticultural crops production</li><li>• Good agricultural practices</li></ul>	<ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li><li>• Oral questions</li><li>• Third party report</li></ul>
2. Select/Procure Horticultural crop planting material	<ul style="list-style-type: none"><li>• Types of propagation materials</li><li>• Propagation methods</li><li>• Nursery establishment and management</li></ul>	<ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li><li>• Oral questions</li><li>• Third party report</li></ul>
3. Manage Horticultural crop nursery	<ul style="list-style-type: none"><li>• Nursery cultural practices</li><li>• Crop water requirements</li></ul>	<ul style="list-style-type: none"><li>• Written tests</li><li>• Observation</li></ul>

	<ul style="list-style-type: none"> <li>• Good agricultural practices</li> </ul>	<ul style="list-style-type: none"> <li>• Oral questions</li> <li>• Third party report</li> </ul>
4. Manage Horticulture Green Houses	<ul style="list-style-type: none"> <li>• Greenhouse installation</li> <li>• Types of media and preparation</li> <li>• Seedbed layout</li> <li>• Crop establishment</li> <li>• Pest and disease control</li> <li>• Watering techniques</li> <li>• PPE</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Third party report</li> </ul>
5. Manage drip irrigation system	<ul style="list-style-type: none"> <li>• Installation</li> <li>• Operation and maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Third party report</li> </ul>
6. Manage Horticultural field	<ul style="list-style-type: none"> <li>• Crop rotation program</li> <li>• Land preparation</li> <li>• Soil fertility management</li> <li>• Pest and disease control</li> <li>• Harvesting</li> <li>• Safe use of pesticides</li> <li>• Security measures</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Third party report</li> </ul>
7. Horticulture post-harvest management	<ul style="list-style-type: none"> <li>• Post-harvest handling</li> <li>• Packaging</li> <li>• Processing</li> <li>• Transportation</li> <li>• Packhouse operations</li> <li>• Storage</li> <li>• Marketing</li> </ul>	<ul style="list-style-type: none"> <li>• Observation</li> <li>• Written tests</li> <li>• Oral questions</li> <li>• Third party report</li> </ul>

### Suggested Methods of instruction

- Project
- Demonstration by trainer
- Practice by the trainee
- Discussions
- Direct instruction
- Simulation
- On job training

## Recommended Resources

- Land
- Propagation materials
- Pangas
- Fork jembe
- Rakes
- Shovel
- Pruning knives
- Watering can
- Water
- Horse pipe
- Drip lines
- Water tank
- Nursery trays
- Pumps
- Chemicals
- PPEs
- Green house kit
- Harvesting crates
- Harvesting knives
- Harvesting pails and baskets
- Packaging materials
- Shade nets
- Soil containers/ poly tubes
- Soil sterilizers
- Soil sampling tools
- Media
- Text books and manuals
- Note books
- Clip board
- White boards
- Projectors
- Computers
- Tractors
- Tractor mounted
  - ploughs
  - planters

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- sprayers
- harrows
- trailer
- Wheel burrow

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