

## PRODUCE ORNAMENTAL PLANTS

**UNIT CODE:** HO/OS/HP/CR/08/3/B

### UNIT DESCRIPTION

This unit specifies the competencies required to participate in producing quality and clean ornamental plants. It involves preparing the growing structures for ornamental plants, planting, carrying out husbandry practices on the ornamental plants while observing regulatory requirements and keeping production records, acclimatizing the ornamental plants and generating a production report.

### ELEMENTS AND PERFORMANCE CRITERIA

<b>ELEMENT</b> These describe the key outcomes which make up workplace function.	<b>PERFORMANCE CRITERIA</b> These are assessable statements which specify the required level of performance for each of the elements. <i><b>Bold and italicized terms are elaborated in the range.</b></i>
1. Prepare to produce ornamental plants	1.1 <i><b>Tools, equipment, materials and supplies</b></i> are identified and sourced based on the requirements of the job 2.1 Soil for analysis is sampled as per <i><b>soil sampling procedure</b></i> and instructions given. 3.1 Soil erosion is controlled based on topography, soil type, level of degradation and instructions given. 4.1 <i><b>Propagation structure</b></i> is prepared in accordance with the ornamental plants production manual and instructions given. 5.1 Soil based planting medium is prepared in accordance with Good Agricultural Practices (GAP) manual, ornamental plants production manual and instructions given.
2. Produce ornamental plants	2.1 Seedlings/seeds are planted/potted as per <i><b>potting containers</b></i> , ornamental plants production manual and instructions given. 2.2 <i><b>Ornamental plants</b></i> are watered, weeded, pruned, supported/trained as per the ornamental plants production manual and instructions given. 2.3 Established ornamental plants are fed based on soil analysis report and instructions given. 2.4 Established ornamental plants are protected from pests and diseases as per GAP and instructions given.
3. Complete production of ornamental plants	3.1 Ornamental plants production is documented in accordance with ornamental plants production manual and instructions given.

### RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Tools may include but not limited to:	<ul style="list-style-type: none"> <li>• Hoes</li> <li>• Machetes</li> <li>• Shovels</li> <li>• Soil augur</li> <li>• Panga</li> <li>• Pegs</li> <li>• Hammer</li> <li>• Saw</li> <li>• Bucket</li> <li>• Secateurs</li> <li>• Shears</li> </ul>
2. Equipment includes but not limited to:	<ul style="list-style-type: none"> <li>• Spray pumps</li> <li>• Watering cans</li> <li>• Hose pipes</li> <li>• Plough</li> <li>• Harrows</li> <li>• Pruning saw</li> <li>• Wire strainer</li> <li>• Traps</li> <li>• Pipe sprinklers</li> <li>• Scouting flags</li> <li>• Storage tanks</li> <li>• Tractors</li> </ul>
3. Materials and Supplies includes but not limited to:	<ul style="list-style-type: none"> <li>• Pesticides</li> <li>• Fertilizers</li> <li>• Stationery</li> <li>• Manures</li> <li>• Seedlings /planting materials</li> <li>• Khaki paper bags size 3</li> <li>• Rope</li> <li>• Nets</li> <li>• Translucent papers</li> <li>• Papers</li> <li>• Fencing wire</li> <li>• Nails</li> <li>• Herbicides</li> </ul>
4. Soil sampling procedure may include but not limited to:	<p>The process of</p> <ul style="list-style-type: none"> <li>• soil collection,</li> <li>• packaging and</li> <li>• submission for analysis</li> </ul>
5. Propagation structures may include but not limited to:	<ul style="list-style-type: none"> <li>• Lath House</li> <li>• Net House</li> </ul>

6. Potting containers may include but not limited to:	<ul style="list-style-type: none"> <li>• Pots</li> <li>• Boxes</li> <li>• Planters</li> <li>• Trays</li> </ul>
7. Ornamental plants include but not limited to:	<ul style="list-style-type: none"> <li>• Asters</li> <li>• Chrysanthemum</li> <li>• Bougainvillea</li> <li>• Statice</li> <li>• Marigold</li> <li>• Geranium</li> <li>• Larkspur</li> <li>• Petunia</li> </ul>

## REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

### Required skills

The individual needs to demonstrate the following skills:

- Tilling
- Measuring
- Leveling
- Gaping
- Pruning
- Spraying
- Pests , diseases and nutrients deficiency scouting
- Equipment calibration
- Technical Report writing
- handling of ornamental plants
- Soil sampling
- Observation
- Negotiation
- Digital literacy

### Required knowledge

The individual needs to demonstrate knowledge of:

- Sources of quality water
- Agro Ecological Zonation
- Establishment and management of ornamental plants
- Landscaping
- Types of ornamental plants
- Physiology of ornamental plants
- Types of tools and equipment used in production of ornamental plants
- Soil sampling and testing

- Soil conservation
- Phyto-sanitary requirements
- Good Agricultural Practices
- Sources of quality planting materials for ornamental plants
- Soilless growing medium
- Husbandry practices in ornamental plants
- Ornamental plants production Technologies
- Accounting principles
- Production records and reports
- Waste Management
- Occupational Safety and Health Procedures
- Acclimatization of Ornamental Plants
- General management of ornamental plants production farm

### EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Prepared planting/potting structure/containers to a level suitable to the planting material as instructed 1.2 Prepared planting medium as per the HCD phyto sanitary requirements and instructions given. 1.3 Applied safety measures by using Personal Protective Equipment 1.4 Followed required process of producing ornamental plants as instructed. 1.5 Efficiently used the inputs
2. Resource Implications for competence assessment	The following resources must be provided: 2.1 Access to relevant workplace where assessment can take place 2.2 Appropriately simulated environment where assessment can take place 2.3 Materials relevant to the proposed activity or tasks Ornamental plants production manual
3. Methods of Assessment	Competency may be assessed through: 3.1 Observation 3.2 Written tests 3.3 Oral questioning 3.4 Third party reporting
4. Context of Assessment	Competency may be assessed: 4.1 Off-the-job 4.2 On-the-job 4.3 Work placement -attachment

	Off the job assessment must be undertaken in a closely simulated workplace environment.
5. Guidance information for assessment	What can be assessed in holistic assessment (with other units relevant to the industry sector, workplace and job roles) is recommended. Attitude is assessed alongside production of ornamental plants.

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