

PRODUCE CUT FLOWERS

UNIT CODE: HO/OS/HP/CR/09/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to participate in producing quality and clean-cut flowers. It involves preparation of the production structures, planting, carrying out husbandry practices while observing regulatory requirements and keeping accurate production records, carrying out postharvest handling of the flowers and generating a production report.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
<p>These describe the key outcomes which make up workplace function.</p>	<p>These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the range.</i></p>
<p>1. Prepare to produce cut flowers</p>	<p>1.1 Site for production of the cut flowers is selected as per the farm plan and instructions given. 1.2 <i>Tools, equipment, materials and supplies</i> are identified and sourced based on the type of cut flower to be established and instructions given. 1.3 Soil for analysis is sampled as per <i>sampling procedure</i> and instructions given. 1.4 Propagation structure is prepared in accordance with the cut flowers production manual and instructions given. 1.5 Soil-based growing medium is prepared in accordance with Good Agricultural Practices (GAP) manual, cut flowers production manual and instructions given.</p>
<p>2. Produce cut flowers</p>	<p>2.1 <i>Cut flowers</i> are planted as per Good Agricultural Practices (GAP) manual, cut flowers production manual and instructions given. 2.2 Cut flowers are watered, weeded, supported, thinned, pinched, disbudded, and pruned as per the cut flowers production manual and instructions given. 2.3 Pests and diseases in cut flowers are controlled based on GAP, cut flowers production manual and instructions given. 2.4 The cut flowers are harvested as per cut flowers production manual and instructions given.</p>
<p>3. Complete production of cut flowers</p>	<p>3.1 Post-harvest handling of cut flowers is carried out as per flower production manual and instructions given. 3.2 Cut flowers production is documented in accordance with cut flowers production manual 3.3 Waste management is undertaken in accordance with Environmental Management and Coordination Act (EMCA)</p>

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">• Hoes• Machetes• Shovels• Soil augur• Panga• Hammer• Saw• Bucket• Secateurs• Shears• Pegs
2. Equipment may include but not limited to:	<ul style="list-style-type: none">• Spray pumps• Watering cans• Hose pipes• Plough• Harrows• Pruning saw• Wire strainer• Traps• Pipe sprinklers• Scouting flags• Storage tanks• Tractors
3. Materials and Supplies may include but not limited to:	<ul style="list-style-type: none">• Pesticides• Fertilizers• Stationery• Manures• Seedlings /planting materials• Khaki paper bags size 3• Rope• Nets• Translucent papers• Papers• Fencing wire• Nails

	<ul style="list-style-type: none"> • Herbicides
4. Soil sampling procedure may include but not limited to:	<p>The process of</p> <ul style="list-style-type: none"> • soil collection, • packaging and • submission for analysis
5. Cut flowers may include but not limited to:	<ul style="list-style-type: none"> • Roses • Carnation • Alstromeria • Gypsophila • Ornis • Hydrangea • Strelitzia • Arabicum • Orchids • Agapanthus • Delphinium

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 cut flowers
- Soil sampling
- Observation
- Negotiation
- Digital literacy

Required knowledge

The individual needs to demonstrate knowledge of:

- Sources of quality water
- Agro Ecological Zonation
- Types of tools and equipment used in production of cut flowers
- Structures for production of cut flowers

- Types of cut flowers
- Physiology of cut flowers
- Soil sampling and testing
- Soil conservation
- Phyto-sanitary requirements
- Good Agricultural Practices
- Sources of quality planting materials for cut flowers
- Husbandry practices in cut flowers production
- Cut flowers production Technologies
- Procedures for calibration of equipment
- Soilless growing medium
- Flower induction
- Maturity indices in cut flowers
- Harvesting and Post Harvesting Handling of cut flowers
- Accounting principles
- Production records and reports
- Waste Management
- Occupational Safety and Health Procedures
- Harvesting and Post Harvesting Handling of cut flowers
- General management of cut flowers 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.

<p>1. Critical Aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Prepared planting structure to a level suitable to the planting material as instructed</p> <p>1.2 Prepared soil-based growing medium as per the HCD phyto-sanitary guide and instructions given.</p> <p>1.3 Applied safety measures by using Personal Protective Equipment</p> <p>1.4 Followed required process of producing cut flowers as instructed.</p> <p>1.5 Efficiently used the inputs</p> <p>1.6 Harvested and carried out post-harvest handling of cut flowers as instructed.</p>
<p>2. Resource Implications for competence assessment</p>	<p>The following resources must be provided:</p> <p>2.1 Access to relevant workplace where assessment can take place</p> <p>2.2 Appropriately simulated environment where assessment can take place</p> <p>2.3 Materials relevant to the proposed activity or tasks</p> <p>Ornamental plants production manual</p>

3. Methods of Assessment	Competency may be assessed through: 3.1 Observation 3.2 Written tests 3.3 Oral questioning 3.4 Interviews
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	This section describes the skills and knowledge required for this unit of competency.

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