



Australian Government

Department of Education, Employment and Workplace Relations

AHCNSY402A Plan a propagation program

Release: 1

AHCNSY402A Plan a propagation program

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers planning a propagation program and defines the standard required to: determine propagation techniques and resources required; select propagation materials and media and determine optimal environmental conditions; determine plant hygiene requirements; review propagation plan by monitoring strike rate and health and quality of propagated plants; negotiate and document plans.
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Application of the Unit

Application of the unit	This unit applies to plant propagators.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Carry out preliminary planning activities for a plant propagation program	1.1. Management and marketing requirements are confirmed and understood. 1.2. Space requirements for propagation program are evaluated. 1.3. Propagation techniques are determined according to species and sound horticultural practice. 1.4. Environmental parameters that impact on propagation are determined. 1.5. Budget for the propagation program is negotiated with management. 1.6. Occupational Health and Safety (OHS) hazards associated with the propagation program are identified, risks assessed and controls implemented.
2. Develop the propagation plan	2.1. Labour, materials, equipment and machinery needs are identified. 2.2. Propagation media requirements are determined according to the propagation method and needs of the plant. 2.3. Strategies to modify environmental conditions are determined according to the type of plant and propagation method used. 2.4. Selection criteria for the propagation material are determined according to the type of plant and propagation method. 2.5. Hygiene requirements for propagation activities are determined. 2.6. Propagation plan is documented and schedule of activities are communicated clearly to staff.
3. Monitor success of propagation activities	3.1. Variances from plan and scheduled activities are identified and recorded. 3.2. Propagated plants are assessed for health, quality and viability according to enterprise quality standards. 3.3. Remedial procedures are planned to meet marketing objectives and business imperatives.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- plan a propagation program applies to the
- conduct literature and consultative research to obtain information about propagation requirements, growth conditions, and marketing implications
- use literacy skills to read, interpret and follow organisational policies and procedures, develop sequenced written instructions, record accurately and legibly information collected and select and apply procedures to a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record routine and more complex workplace measures and data
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- OHS hazards associated with undertaking propagation activities, and the controls necessary to remove or minimise risks associated with them
- practical understanding of the OHS and environmental issues associated with use and disposal of propagation media
- enterprise and industry hygiene standards required for propagation activities, including relevant quarantine regulations
- industry and enterprise quality specifications for parent plants and propagation materials
- common problems that may occur while performing propagation activities in a controlled environment, and preventative/corrective action that may apply
- processes and techniques for preparing, costing and documenting plans for and scheduling propagation activities
- identification, propagation and establishment techniques required for a range of plant varieties and cultivars
- monitoring staff performance
- Plant Breeders Rights (PBR) and related legislation
- aftercare requirements for a range of propagated plant varieties and cultivars
- testing methods applied to propagation media
- preferred types of propagation media for different species
- chemical, cultural and biological pest, weed and disease control techniques
- application techniques for chemical and non-chemical intervention or treatments.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • determine propagation techniques and resources required • select propagation materials and media and determine optimal environmental conditions • determine plant hygiene requirements • review propagation plan by monitoring strike rate and health and quality of propagated plants • negotiate and document plans.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Propagation techniques may include:	• seed • cuttings • layering • growing on tissue cultured plants • division or splitting • budding • grafting • spores • cloning.

Unit Sector(s)

Unit sector	Nursery
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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