



Australian Government

AHCNSY313 Implement a propagation plan

Release: 1

AHCNSY313 Implement a propagation plan

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to implement a propagation plan, including; preparing for, implementing and completing propagation of plants.

The unit applies to individuals who implement a propagation plan under broad direction, and take responsibility for their own work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Nursery (NSY)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for propagation activities	1.1 Determine work requirements from workplace instructions 1.2 Identify potential hazards and risks, and implement safe working practices to manage risks 1.3 Select required tools, equipment and machinery, and check for safe operation 1.4 Select, fit, use and maintain personal protective equipment applicable to the task

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Prepare propagation environment to suit species and propagation method 1.6 Implement hygiene and biosecurity practices applicable to plant propagation activities
2. Select seed or vegetative propagation material	2.1 Identify parent plant or seed and select according to health, vigour or desired characteristics 2.2 Select or collect propagation material according to propagation method and species 2.3 Select appropriate conditioning and storage requirements to ensure maximum viability of propagating material 2.4 Undertake treatments as required
3. Prepare propagation components and media	3.1 Select components and prepare propagation media and appropriate container for planting 3.2 Test propagation media according to workplace quality specifications
4. Propagate plants	4.1 Prepare propagation material according to workplace instructions 4.2 Perform propagation techniques and treatments appropriate for plant species 4.3 Handle propagation material to minimise damage or deterioration 4.4 Label units or batches to enable tracking of propagated material 4.5 Place propagated material into suitable environment for propagation cycle 4.6 Provide aftercare to suit growing conditions, plant requirements and propagation techniques
5. Complete propagation operations	5.1 Clean work site using appropriate hygiene requirements 5.2 Remove and dispose of waste according to workplace procedures 5.3 Clean and return tools, equipment and machinery to required location 5.4 Identify and report unserviceable tools, equipment and machinery according to workplace procedures 5.5 Monitor and record propagation activities according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Identify and interpret textual information from a range of sources to identify relevant and key information about plant propagation
Writing	Use clear language and accurate industry terminology to complete propagation activity records
Oral communication	Use clear language to report tool, equipment and machinery unserviceability
Numeracy skills	Calculate propagation media ratios, proportions and quantity

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCNSY313 Implement a propagation plan	AHCNSY306 Implement a propagation plan	Minor changes to application Major changes to performance criteria Foundation skills added Assessment requirements updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCNSY313 Implement a propagation plan

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has implemented a propagation plan on at least one occasion, and has:

- prepared for propagation activities according to workplace instructions
- applied workplace health and safety requirements, including use of PPE
- implemented hygiene and biosecurity practices applicable to plant propagation activities
- selected, cleaned, used and maintained propagation tools, equipment and machinery
- prepared the growing environment to suit species and propagation method
- selected appropriate propagation material
- applied propagation techniques and treatments as appropriate to plants being propagated
- applied a minimum of 7 of the following propagation techniques as part of that plan:
 - deflasking plantlets
 - tissue culture
 - seed sowing
 - budding and grafting
 - soft tip cutting
 - semi-hardwood cutting
 - hardwood cutting
 - leaf cutting
 - division
 - layering
- labelled propagated units or batches, and recorded propagation activities
- provided aftercare to suit growing conditions, plant requirements and propagation techniques
- removed and disposed of waste material.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- workplace requirements applicable to health and safety in the workplace for implementing a propagation plan
- problems that may occur performing propagation activities, and preventative action
- enterprise hygiene and biosecurity standards required for propagation activities
- the principles and practices for implementing a propagation plan, including:
 - preferred types of propagation media for different species
 - propagation techniques and treatments required for a range of plants
 - problems and anomalies with parent plants, propagation material, propagation media, equipment and materials, and their rectification
 - quality specifications for parent plants and propagation materials
 - testing methods applied to propagation media
 - aftercare requirements for a range of propagated plants.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - parent plants, propagation media and propagation material applicable to propagation techniques being undertaken
 - propagation tools, equipment and machinery
 - personal protective equipment applicable to implementing a propagation plan
- specifications:
 - workplace requirements applicable to health and safety in the workplace for implementing a propagation plan
 - work instructions, workplace procedures and quality specifications applicable to implementing a propagation plan
- relationships:
 - supervisor
- timeframes:
 - according to job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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