



Australian Government

Assessment Requirements for AHCPER223 Produce new plants for a permaculture garden system

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 9.0.

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 produced new plants for a permaculture garden system and has:

- identified method of propagation for at least 10 different species
- selected and prepared materials and resources, including:
 - implemented hygiene practices
 - prepared containers and media
 - sourced plant propagation material
- propagated plants safely using at least 3 of the following techniques:
 - seeds
 - cuttings
 - division
 - grafting/budding
 - layering
- maintained the health of new plants and mother stock, including:
 - watering
 - monitored and responded to pests, diseases or nutrient problems
 - monitored and responded to environmental condition in growing environment
- implemented seasonal propagation maintenance activities
- maintained accurate labelling and records during propagation activity.

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:

- permaculture principles and practices related to propagation including:

- using reclaimed or reused containers (suitably cleaned to avoid cross-contamination)
- labelling systems using reclaimed materials
- maintaining rare and unusual varieties
- using edges and valuing marginal or unusual plants in micro-climates
- sharing and swapping to increase biodiversity and mutual wellbeing
- preserving provenance of locally indigenous species
- testing and trialling for new plants or resistant varieties
- global food plant preservation, including seed saving
- importance of hygiene and biosecurity in propagation practices
- principles of sustainable horticultural practices
- propagation techniques, including:
 - seed sowing
 - tip and softwood
 - semi hardwood cuttings
 - hard wood cuttings
 - root cuttings
 - layering
 - division
 - grafting, including whip and tongue, saddle, wedge and budding
- maintaining optimum growing environment, including:
 - propagule treatments
 - media moisture
 - humidity
 - basic plant nutrition
- potting mixes suitable for propagation in a garden setting, including:
 - compost and worm casting mixes
 - sieved and graded sands
 - blends used for different purposes or different times of year
 - sphagnum moss
- common conditions for propagation in permaculture systems, including:
 - direct into prepared beds
 - containers and pots
 - greenhouses, cloches and cold frames
 - shade and lathe houses
 - directly on existing plants
- basic plant growth and development
- workplace health and safety requirements relevant to plant propagation
- methods of waste disposal causing minimal impact on the environment.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in a permaculture garden system or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - propagation tools and equipment
 - personal protective equipment
 - plant propagation materials specified in the performance evidence
 - growing environments for propagation methods
- specifications:
 - workplace procedures and processes
 - workplace instructions and propagation plans
- timeframes:
 - according to season specified for plant species propagation.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>