



Australian Government

Assessment Requirements for AHCPER331 Coordinate propagation activities for a permaculture system

Release: 1

Assessment Requirements for AHCPER331 Coordinate propagation activities for a permaculture system

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 coordinated and implemented propagation activities for at least four (4) different plants in a permaculture system and has:

- researched plant propagation requirements
- planned and scheduled plant propagation
- implemented propagation plan safely using at least four (4) of any of the following propagation techniques:
 - cuttings
 - layering
 - division
 - grafting
 - budding
 - seed sowing
- maintained propagated plants to maturity or distribution
- updated records and plant propagation plan.

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 the marginal – unusual plants in microclimates
 - 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
- sustainable sources of propagation materials, including:
 - seed banks
 - stock and garden beds
 - traded and bartered
 - purchased plants, plant material or seed
- propagation plan, including:
 - seasonal activities
 - seed saving
 - needs of the system for plants
 - mother plant health, location and frequency of use
 - schedules and timelines
- propagation techniques, including:
 - cuttings – softwood, hardwood, semi-hardwood, root and tip
 - layering – stool, aerial and runner
 - division
 - grafting – whip and tongue, saddle, wedge, approach and bench
 - budding – shield and patch
 - seed sowing
- growing media suitable for propagation in a permaculture garden setting
- plant growth, development and nutrition
- plant reproduction botany and physiology
- maintaining moisture levels in simple systems without causing disease
- systems for protecting new plants and seedlings, including:
 - polyhouse or shade-house systems, including hoop systems on garden beds
 - systems using reclaimed materials
 - naturally occurring or planned microclimates
- minimal environmental impact waste disposal and composting systems that destroy pathogens
- workplace health and safety hazards, risks and controls for propagation methods
- hygiene and biosecurity procedures in the propagation area.

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 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
 - safety data sheets
- timeframes:
 - according to season specified for plant species.

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>