



Australian Government

AHCPER316 Select plant and animal species for permaculture systems

Release: 1

AHCPER316 Select plant and animal species for permaculture systems

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to select plant and animal species for permaculture systems. It requires knowledge of permaculture needs analysis and bioregional analysis and plant and animal species and their interrelationships.

This unit applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources.

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

Pre-requisite Unit

Nil.

Unit Sector

Permaculture (PER)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Assess the system needs	1.1 Undertake a needs analysis of the permaculture system and its main elements 1.2 Identify possible plant and animal combinations to suit the permaculture system design 1.3 Compile a list of possible plants and animals to suit the design
2. Research plant and	2.1 Research the plants and animals and any varieties or breeds that

Element	Performance criteria
animal systems	the needs analysis has identified 2.2 Observe other working systems that may inform the new design 2.3 Assess local availability of chosen varieties and breeds
3. Select plant and animal species for the permaculture system	3.1 Determine appropriate combinations of plant and animal species for the permaculture system 3.2 Ensure ancillary needs such as housing, prepared ground, shelter and fodder are available and in place before establishing the new plant and animal systems 3.3 Obtain plants and animals elements for the permaculture system 3.4 Monitor plant and animal systems during the establishment phase

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

New unit.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AHCPR316 Select plant and animal species for permaculture systems

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- assess permaculture system needs
- research plants and animals to inform the new permaculture system design
- select plant and animal species for a permaculture system
- monitor plant and animal systems during the establishment phase

Knowledge Evidence

The candidate must demonstrate knowledge of:

- permaculture principles and practices related to species selection
- permaculture needs analysis
- bioregional analysis
- plant and animal species and their interactions and interrelationships, such as:
 - permaculture combinations – guilds, companions, nurse plants and animal companions
 - EVCs (Ecological Vegetation Classes)
 - indigenous animals and plants
 - what grows or thrives locally – plants, animals, birds, insects, fish, frogs, reptiles
 - food, fodder and medicinal plant species suitable for chosen animals
 - integrated plant and animal systems such as chicken tractors, cell grazing, aquaculture systems
- basic research techniques
- using primary data sources, such as:
 - original data gathered by the researcher
 - local wisdom
 - weather observations

- flora and fauna observations
- using secondary data sources, such as:
 - data provided by government departments and agencies
 - publications
 - reference books, websites and journals
 - official weather data
- communication techniques

Assessment Conditions

Assessors must satisfy current standards for RTOs. Assessors must also hold a nationally accredited Certificate III (or higher) in Permaculture. Completion of a Permaculture Design Course (PDC) is not sufficient at this level.

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