



Australian Government

AHCPER413 Evaluate suitability of species as solutions for permaculture applications

Release: 1

AHCPER413 Evaluate suitability of species as solutions for permaculture applications

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to evaluate suitability of species as solutions for permaculture applications.

It requires knowledge of botany, zoology, ecology and climate science and the ability to research species in detail and make recommendations for a particular scenario. All work is carried out to comply with workplace procedures.

This unit applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.

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. Research species in detail and assess for usefulness	1.1 Carry out research into species for use in the permaculture project 1.2 Assess the usefulness of species for the roles or functions required in the system

Element	Performance criteria
	1.3 Document research and include photographs or illustrations for correct identification
2. Assess the needs of the permaculture system	2.1 Undertake a complex needs analysis of the permaculture system 2.2 Confirm that the species selected will provide the solutions needed 2.3 Undertake further research if needed
3. Recommend species as solutions for permaculture applications	3.1 Prepare a report recommending species as solutions to permaculture applications 3.2 Support the recommendations with evidence from the research 3.3 Explain species interactions and inter-relationships
4. Evaluate suitability of species in a permaculture design	4.1 Review the permaculture design once species are in place 4.2 Evaluate suitability of the species in the design 4.3 Re-assess any species that are not performing the function as expected 4.4 Research alternatives or additional species to support the function

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 AHCPER413 Evaluate suitability of species as solutions for permaculture applications

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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:

- research species for use in a permaculture project
- assess the usefulness of species in a permaculture project
- assess the needs of a permaculture system
- recommend species as solutions for permaculture applications
- evaluate the suitability of species in a permaculture design

Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of permaculture related to needs of species and systems
- botany and zoology fundamentals
- research methodology
- complex needs analysis
- permaculture design strategies for species selection and inter-relationships
- Comparative analysis techniques
- Critical evaluation techniques for both written and graphic representations of permaculture design

Assessment Conditions

Assessors must satisfy current standards for RTOs. Assessors must also have a nationally accredited Certificate IV or Diploma of Permaculture. Completion of a Permaculture Design Course (PDC) or non-accredited Permaculture Diploma is not sufficient at this level.

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