



Australian Government

Assessment Requirements for AHCPER421 Select appropriate technology for a permaculture 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, on at least one occasion, selected appropriate technology for inclusion in permaculture system design and has:

- identified and confirmed permaculture system requirements for appropriate technology with client
- investigated appropriate technology options for permaculture system requirements
- evaluated appropriate technology options most suited to permaculture system design
- documented and confirmed selection of appropriate technology option with client
- amended permaculture design with appropriate technology option.

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 ethics
- definition of appropriate technologies and common considerations, including:
 - energy technologies
 - alternative and resource conserving technologies
 - building technologies
 - tools and implements employed in gardening and farming operations
 - lifestyle choices and behavioural adjustments to conserve energy and resources to meet sustainability objectives
 - smaller scale and low-cost solutions to everyday activities
- ingenuity applied to complex problems to develop simple solutions
- criteria for determining appropriateness of energy and resource conservation technologies
- principles of passive solar design, embodied energy and carbon emission reduction
- role of innovations in appropriate technologies

- role of appropriate technology in energy descent planning and greenhouse gas emission reduction
- types of appropriate technology systems commonly available and applied to the design of energy and resource conscious houses, farms, offices and community projects
- the benefits from combining a number of different appropriate technologies and the limitations of each different technology
- design of systems integrating appropriate technologies.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated for a permaculture system design or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - reference material for technologies
- specifications:
 - workplace policies, procedures, processes
 - client brief
- relationships:
 - client.

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>