



**Australian Government**

# **Assessment Requirements for AHCPER405**

## **Select appropriate technology for a permaculture system**

**Release: 1**

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### Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

### 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:

- investigate appropriate technologies for permaculture systems
- evaluate permaculture systems capabilities in relation to the use of new technologies
- evaluate suitability of new technology solutions to the permaculture application
- communicate information and options

### Knowledge Evidence

The candidate must demonstrate knowledge of:

- permaculture principles and ethics
- appropriate technologies, such as:
  - technologies involving solar, wind, wood, biomass and water driven equipment for generating power, performing pumping duties, heating hot water and biochar production
  - alternative and resource conserving technologies such as rainwater collection, waste water treatment, composting toilets, cooking stoves, cob ovens, space heating and cooling, household appliances, pedal-powered appliances, enterprise plant and equipment
  - building technology such as natural and resource conserving building materials and techniques including passive solar design strategies and features
  - tools and implements employed in gardening and farming operations such as electric fencing, hand vs. power tools, shredders, mulching machines and use of animal power
  - lifestyle choices and behavioural adjustments to conserve energy and resources to meet sustainability objectives

- smaller scale and lower cost solutions such as maintaining and riding a bicycle, using a refillable pen, using a razor with replaceable blades and substituting other non-disposable items where disposables are normally used
- low energy devices
- ingenuity applied to complex problems to develop simple solutions such as solar powered street lighting
- criteria for determining appropriateness of energy and resource conservation technologies
- principles of passive solar design, embodied energy and carbon emission reduction
- innovations in energy and resource conservation 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

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.

## Links

Companion Volume implementation guides are found in VETNet -

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