



Australian Government

Assessment Requirements for AHCPER309 Install and maintain permaculture water systems

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:

- organise resources for installation work
- set out and prepare site
- install permaculture water systems materials and components, excluding works requiring a licensed plumber.
- commission a permaculture water system
- monitor and maintain permaculture water systems
- communicate with work team members, supervisors, contractors and consultants

Knowledge Evidence

The candidate must demonstrate knowledge of:

- permaculture practices regarding water including natural flows, rainwater and wastewater, storage, movement and retention of water in the system
- permaculture water systems, such as:
 - swales
 - contour banks
 - terraces
 - mulch-pit paths
 - diversion channels and other passive installations
 - mains pressure systems
 - low pressure or gravity systems
 - below-ground systems
 - above-ground systems
 - spray, dripper and capillary irrigation systems

- water tanks
- guttering and first-flush diversion system
- water supply components, such as:
 - mains
 - dam
 - bore
 - windmill
 - tank
 - channel
- understanding of contours
- installation methods and techniques for permaculture water systems
- components of permaculture water systems
- characteristics and operation of joints, valves and sprinkler components
- operation of pumps and water flow rates
- behaviour of water on varying terrain and soil types
- soil water retention testing techniques
- water quality and water filtration techniques
- calculations for installing permaculture water systems
- soil characteristics
- regulations and legislative requirements, such as:
 - permits for pruning or removal of large trees
 - connecting to water systems
 - licences for operating specialised machinery, such as chainsaws, skid steer loaders and forklifts
 - setting up traffic and pedestrian barriers
 - digging near services (phone, gas, power, water, sewerage and drains)
 - installing dams or diverting water in catchments
 - installing tanks
 - planning acts and codes
 - earth movement and digging guidelines and legislation
 - environmental legislation
 - land restoration codes
 - water conservation guidelines and legislation
 - soil movement regulations
 - habitat and wildlife protection legislation

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.

Links

Companion Volume implementation guides are found in VETNet -

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