



Australian Government

Assessment Requirements for AHCPER502 Design an integrated permaculture system

Release: 2

Assessment Requirements for AHCPER502 Design an integrated permaculture system

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:

- demonstrate drafting and drawing techniques
- negotiate with clients
- undertake a site analysis and site survey
- provide urban and rural permaculture design solutions
- analyse zones and sectors of a site
- develop concepts
- develop planting schedules and bills of quantity
- develop a design budget
- develop final design drawings including elevations and projections
- design presentations

Knowledge Evidence

The candidate must demonstrate knowledge of:

- elements of integrated permaculture design
- principles of integrated permaculture design
- strategies for urban and rural permaculture design
- strategies for building design and working with builders and architects
- strategies for settlement design and working with planning authorities
- design brief elements
 - statement of scope of design
 - statement of client needs and requirements
 - food production
 - system efficiency

- system production
- fibre, energy and building material production
- water harvesting
- waste treatment
- energy planning and design
- biodiversity habitat
- soil carbon building
- soil fertility
- establishment of financial budget
- establishment of time budget
- maintenance of financial budget
- maintenance of time budget
- design of establishment documents
- maintenance planning
- sustainable commercial enterprises
- social amenities
- cultural considerations
- list of project elements
- list of assessable tasks
- design analysis and research techniques
- plan interpretation and map reading
- site surveying methods and tools
 - onsite measurement of site boundaries
 - mapping of boundaries to scale to a plan drawing
 - onsite layout of 1m contour
 - mapping of contour lines to a scale plan drawing
 - measurement and location of existing infrastructure and natural features on site
 - mapping of existing infrastructure and natural features to a scale plan drawing
 - dumpy level or equivalent surveying instrument for taking vertical measurements on site
 - dumpy level or equivalent surveying instrument for measuring angles on site
 - GPS, satnav
 - measuring tapes for measuring distance on site.
- design concepts and detailed design drawings
 - property boundaries, scale and north point
 - authors of plans, contact details
 - address of site
 - date plan drawn
 - existing infrastructure and natural features
 - drawing to scale

- relevant overlays and drawing numbers
- large format planning (at least A1 or A2)
- overlays such as fire, flora and fauna, soil and geology, local planning ordinances, buffer and riparian zones, use zones
- contour lines or other appropriate indication of slope direction and gradients
- drainage features
- Lot, DP, landowner address and contact details
- permaculture design methods
- conventional design symbols
- design drafting and drawing conventions
- computer-aided drafting and design
- plant and animal selection

Assessment Conditions

Assessors must satisfy current standards for RTOs. Assessors must also have a nationally accredited 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>