



Australian Government

Assessment Requirements for AHCPER402 Design a rural permaculture system

Release: 1

Assessment Requirements for AHCPER402 Design a rural 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:

- develop a design brief for a rural permaculture system
- draw permaculture and landscape plans
- identify rural permaculture design solutions
- develop permaculture system concepts
- develop planting schedules, budget and bills of quantity
- develop a final design
- present design to client

Knowledge Evidence

The candidate must demonstrate knowledge of:

- elements of rural permaculture design
 - representation of up to 5 zones
 - detailed representation of Zones 1 to 3
 - sector analysis
 - bioregional analysis
 - superimposing of design over commercial aerial photograph or other geospatial representation
- principles of permaculture
- strategies in rural permaculture design, such as:
 - land shaping including contour ploughing, swaling, keyline dam systems, berms and terraces
 - integrated plant and animal systems that suit the bioregion and the land
 - natural system preservation and incorporation into overall design

- soil and water preservation
- forest ecology and recharge plantings for maximum water and nutrient cycling
- innovative agricultural systems such as cell grazing, inter-cropping, commons and food forests
- preservation of old and rare breeds of animals
- biodiversity and habitat preservation and enhancement strategies
- design brief
 - statement of scope of design
 - statement of client needs and requirements
 - listing of project elements
 - listing of assessable tasks
 - options for dealing with client needs and requirements
- design analysis and research
 - investigation of permaculture books and publications, online material, audio and video material, maps, plans, charts and tables
 - searches in libraries and databases
 - viewing maps
 - searching geospatial data
 - talking to people in the local area or neighbours
- plan interpretation and map reading
- site analysis
 - initial on-site estimations of soil type, pH, texture
 - topography
 - aspect
 - zone and sectors planning
 - existing vegetation
 - climatic factors
 - indicator species or other landscape-reading notes
- site surveying methods and tools
 - surveying instruments for taking vertical measurements on site
 - surveying instruments for measuring angles on site
 - surveying instruments for measuring distance and horizontal measurements on site
- design concept, such as:
 - preliminary conceptual sketches
 - bubble diagrams
 - preliminary plan, section and elevation design drawings
 - use of design drawing and drafting conventions
 - presentable and legible design drawings for client use
- rural permaculture design
 - integration of brief requirements, analytical information and conceptual planning

- rational justification for placement of design elements
- integration of elements to produce an efficient and functional rural permaculture system
- conventional design symbols and those to convey permaculture elements
- design drafting and drawing conventions
- plant and animal selection
- final design
 - rendered plan, elevation and section drawings to scale
 - use of design drawing and drafting conventions
 - use of consistent graphic style
 - supporting legends and keys of elements
 - supporting materials lists, tables, bills of quantity, timelines, installation plans and management plans
 - construction detail drawings
- methods of design
 - zone and sector planning
 - slope planning
 - patterns in space and time

Assessment Conditions

Assessors must satisfy current standards for RTOs. Assessors must also hold 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>