



Australian Government

Assessment Requirements for AHCPER403 Design an urban permaculture system

Release: 1

Assessment Requirements for AHCPER403 Design an urban 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:

- draw permaculture and landscape plans
- identify urban permaculture design solutions
- analyse zones and sectors of site
- develop design concepts
- develop detail and construction drawings
- develop planting schedules, budget and bill of quantities
- develop a final design
- present a design to a client

Knowledge Evidence

The candidate must demonstrate knowledge of:

- elements of urban permaculture design
 - Zones 1 and 2, as the furthest areas represented on the plan (otherwise it is a rural design)
 - needs supplied by other zones, even if they are supplied off site
 - sector analysis
 - bioregional analysis
 - design which may utilise existing architects' drawings or local maps and plans
- principles of permaculture
- strategies in urban permaculture design
- edible landscapes and aesthetics in design
- public landscapes and community garden design
- design brief

- statement of scope of design
- statement of client needs and requirements
- list of project elements
- list of assessable tasks
- options for dealing with client needs and requirements
- design analysis and research techniques
- plan interpretation and map reading
- site analysis
 - onsite measurement of site boundaries
 - mapping of boundaries to scale to a plan drawing
 - mapping of contour lines to a scale plan drawing
 - measurement and location of existing infrastructure and features on site
 - mapping of existing infrastructure and features to a scale plan drawing
 - measuring and plotting location of services (power, water, sewer, gas)
 - measuring and plotting location of meters or access points
- 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 concepts
 - preliminary conceptual sketches
 - bubble diagrams
 - preliminary plans, sections and elevation design drawings
 - use of design drawing and drafting conventions
- presentable and legible design drawings for client use, such as:
 - domestic systems for urban and suburban properties
 - rooftop, balcony and courtyard gardens
 - public landscapes such as streets, parks, car parks, commercial premises, industrial estates and community centres
 - school gardens and learnsapes
 - community gardens and city farms
 - Community Supported Agriculture systems, urban market gardens and peri-urban small holdings
 - urban forestry
- 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 drawing
- 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>