



**Australian Government**

# **Assessment Requirements for AHCPER420 Design an urban permaculture system**

**Release: 1**

# Assessment Requirements for AHCPER420 Design an urban permaculture system

## Modification History

| Release   | Comments                                                                                                                    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 9.0. |

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has, on at least one occasion, designed a permaculture system for an urban property, including:

- consulted and negotiated with client to develop a design brief for an urban permaculture system
- developed concept ideas and sought feedback and approval from client for an urban permaculture system design
- developed the concept, which must include:
  - analysed zones and sectors relevant to an urban permaculture system design
  - designed elements suitable to an urban property
  - identified and recommended plants and animals suitable for inclusion in an urban environment
  - calculated materials and cost estimates for the concept.

There must also be evidence that the individual has:

- prepared landscape drawings and plans for design, including:
  - detail and construction drawings
  - developed planting schedules, budget and specifications
  - developed a final design
- presented a design to a client and finalised workplace design procedures.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- elements of urban permaculture design, including:
  - representation of zones 1 and 2

- needs supplied by other zones
- sector analysis
- neighbourhood context and bioregional analysis
- design that may utilise existing architects' drawings or local maps and plans
- principles and practices of permaculture in an urban setting
- strategies in urban permaculture design
- edible landscapes and aesthetics in design
- public landscapes and community garden design
- contents of a design brief, including:
  - 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 techniques
- plan interpretation and map reading
- site analysis, including:
  - site boundaries and contours
  - location of existing infrastructure and features
  - location of services and access points to meters (power, water, sewer, gas)
- site surveying methods and tools, including:
  - vertical measurements
  - measuring angles
  - distance and horizontal measurements
- design concepts, including:
  - preliminary conceptual sketches
  - bubble diagrams
  - preliminary plans, sections and elevations
- design drawing and drafting conventions, including symbols
- presentable and legible design drawings for urban systems suitable for client use
- plant and animal selection
- final design, including:
  - rendered plan, elevation and section drawings to scale
  - design drawing and drafting conventions
  - consistent graphic style
  - legends and keys of elements
  - materials lists, tables, bills of quantity, timelines, installation plans and management plans
  - construction detail drawing
- methods of design, including:

- zone and sector planning
- slope planning
- patterns in space and time.

## Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in an urban environment or an environment that accurately represents urban conditions
- resources, equipment and materials:
  - survey tools and equipment
  - permaculture reference materials
  - drawing equipment and resources
- specifications:
  - workplace procedures
  - workplace client brief
- relationships:
  - client.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>