



Australian Government

Assessment Requirements for AHCPER514 Design an integrated permaculture system

Release: 1

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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 designed an integrated permaculture system for at least two (2) sites, which must include:

- a rural environment
- an urban environment.

There must also be evidence that for each design the individual has:

- developed a design brief with a client, which must include:
 - design scope and objectives
 - design context
 - cost structure
 - timelines
- conducted a site analysis and site survey
- prepared a base plan for design development
- provided design solutions for both urban and rural permaculture systems
- analysed permaculture zones and sectors of a site
- developed concept design, which must include:
 - conceptual themes and patterns
 - location and layout of proposed design elements
- developed planting schedules and bills of quantity
- developed a design budget
- developed final design drawings, including elevations and projections, using industry recognised drafting and drawing techniques.

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:

- principles and elements of integrated permaculture design, including climate change science and mitigation strategies
- strategies for urban and rural permaculture design
- legislative and regulatory requirements of design elements
- strategies for community settlement development and working with planning authorities
- design brief elements, including:
 - scope and objectives of design
 - client needs and requirements
 - project elements
 - assessable tasks
- social and community research and development
- structures and features required for design, and identifying the needs for building permits
- design analysis and research techniques
- plan interpretation and map reading
- site surveying methods and tools, including:
 - measurement and mapping of site boundaries
 - mapping of contour lines
 - location of existing infrastructure and natural features
 - use of surveying instruments
 - digital survey technologies
 - linear measuring devices
- design concepts and detailed design drawing elements, including:
 - client details and site location
 - property boundaries, scale and north point
 - authors of plans, contact details
 - address of site
 - date plan drawn
 - existing infrastructure and natural features
 - drawing scale
 - relevant overlays and drawing numbers
 - plan size and format
 - overlays, including fire, flora and fauna, soil and geology, local planning ordinances, buffer and riparian zones, use zones, cultural and heritage zones
 - indicators of gradient and contour lines, including drainage features
- permaculture design methods
- conventional design symbols
- design drafting, drawing conventions and drafting technologies

- plant and animal selection.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated for a site suitable for an integrated permaculture system or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - drawing tools and permaculture system equipment
 - research material
- specifications:
 - workplace policies, procedures, processes
 - client brief
 - specific legislation and codes of practice
- relationships:
 - client
 - stakeholders.

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>