



Australian Government

Assessment Requirements for AHCPER515 Design permaculture structures and features

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 prepared a design of at least one permaculture structure or feature and has:

- developed a design brief
- undertaken a site analysis
- developed a concept design
- produced a plan for design with supporting documentation
- produced a bill of materials and cost estimates for the design
- ensured design complies with engineering principles and legislative requirements.

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:

- permaculture design process, including:
 - site survey
 - needs analysis
 - bioregional analysis
 - zone and sector analysis
- construction and engineering principles for structures and features, including:
 - basics of forces and loads
 - construction materials, sizing and basic computations
 - basics of soil and foundations to support structures and features
- legislative requirements and responsibilities impacting structural elements, including:
 - application of building codes and standards
 - permits for planning and construction, and the application process

- environmental legislation
- drafting techniques and plan documentation
- cost estimating
- environmental, resource and energy implications of building materials, including:
 - thermal mass
 - insulation
 - embodied and embedded energy
 - cradle to grave planning
 - passive heating and cooling systems
- use of less traditional building materials and techniques, including:
 - earth
 - straw bale
 - pole construction
 - passive solar.

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 permaculture system project or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - planning and drawing tools and equipment
- specifications:
 - building codes and engineering standards
 - specific legislation and industry codes of practice
- 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>