



Australian Government

Assessment Requirements for AHCPER414

Develop recommendations for integrated plant and animal systems

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, on at least one occasion:

- identified and clarified client objectives into a brief for an integrated plant and animal system, including the interpretation of site-specific:
 - designs
 - maps
 - ground plans, and
 - specifications
- determined possible solutions for an integrated plant and animal system
- assessed possible solutions and selected most appropriate to meet client objectives
- collated solutions and documented recommendation for integrated plant and animal system for client, which must include:
 - method of establishment
 - probable outcomes
 - identity, origin and characteristics of plant and animal species and their cultural requirements
 - function of plants and animals in integrated system
 - drawings to show plant and animal integration
 - tables to show outcomes for improved yields, labour and waste reduction
- communicated solution to client
- recorded and reported recommendations and client interaction.
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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 principles related to integrated plant and animal systems
- permaculture practices and outcomes, including:
 - minimising work effort for maximum effect
 - multiple uses for each element in the system
 - more than one way of providing important functions
 - re-using and valuing resources and energy
 - maximising yield and encouraging productivity of the system
 - seeing solutions not problems
 - using vertical space and other edges and connections
 - preventing waste and loss of resources from the system
 - methods of design, such as planning spatially and allowing for overhead and underground structures, shadow, slope and sun angle
- characteristics and interrelationships of integrated plant and animal systems, including:
 - ecological principles
 - climate and weather
 - water
 - soils
 - species identification and selection
 - plants in integrated systems
 - animals in integrated systems
- supply issues for integrated plant and animal system, including:
 - local plant and animal suppliers
 - access to professional services, consultants and contractors
 - availability of local resources and supplies
- patterns in permaculture design, including:
 - patterns in space, such as planting patterns, naturally occurring patterns in nature (radial and bilateral symmetry, spirals, circles, dendritic and mandala patterns)
 - patterns in time, such as succession planting, breeding cycles, seasonality
 - patterns in human culture, such as gardening systems
 - nature as the model for design, such as stacking or layering as with a natural forest
 - gravity as a force for design, such as using contours in design
 - nutrient, water and energy capture, storage and re-use according to the inputs, outputs and intrinsic features of the system
- documentation and drawing skills for developing recommendation.
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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 requiring a permaculture system or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools and equipment used for conducting site observations
 - reference materials
 - drawing tools
- specifications:
 - workplace procedures and processes
 - workplace client brief
 - 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>