



Australian Government

AHCPER514 Design an integrated permaculture system

Release: 1

AHCPER514 Design an integrated 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.

Application

This unit of competency describes the skills and knowledge required to design integrated permaculture systems in a range of contexts, including developing a design brief, undertaking a site analysis, developing conceptual designs and producing a final design drawing and specifications.

The unit applies to individuals who apply specialised skills and knowledge, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Permaculture (PER)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Develop an integrated permaculture system design brief	1.1 Consult with client and determine design objectives 1.2 Determine design context 1.3 Develop and confirm design brief with client 1.4 Negotiate cost structures and timelines

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Document cost structure and budget
2. Undertake analysis and prepare base plan for design	2.1 Access maps, images and geospatial data for site 2.2 Conduct site survey for design 2.3 Include all permaculture Zones in survey area 2.4 Prepare a base plan 2.5 Source and assess social research data 2.6 Undertake field research for design contexts according to design brief 2.7 Analyse site and bioregion of local area 2.8 Record site analysis outcomes on base plan
3. Interpret site for an integrated permaculture system design	3.1 Research permaculture elements and assess suitability for design 3.2 Identify functional interconnections between elements to increase yield and minimise resource use 3.3 Select permaculture design elements according to research outcomes 3.4 Coordinate design development with other stakeholders involved with project 3.5 Identify regulatory and compliance requirements affecting design elements 3.6 Revise brief with client according to outcomes of research and analysis
4. Prepare design concepts	4.1 Identify viable design concepts to achieve brief objectives 4.2 Prepare concept design drawings according to industry standards 4.3 Identify and document materials required for design concept 4.4 Compile list of plant and animal species and varieties suitable for chosen concepts 4.5 Prepare a preliminary budget for conceptual design
5. Review design concept with client for approval	5.1 Review the concepts against permaculture principles and ethics 5.2 Prepare presentations of draft design concept options for client 5.3 Present options and approaches for design to client and seek feedback

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	5.4 Review and revise design brief from feedback and secure approval from client
6. Produce final design and report for an integrated permaculture system	6.1 Design integrated permaculture system according to design brief 6.2 Document permaculture design according to industry standards 6.3 Present plans, drawings and documents for integrated permaculture system design to client 6.4 Seek final approval from client 6.5 Finalise and record design process according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Writing	Prepare and produce client brief, plans and specifications, including diagrammatic models and diagrams, to illustrate complex permaculture design principles and requirements
Oral communication	Use collaborative and inclusive techniques, including active listening and questioning and reading of verbal and non-verbal signals, to negotiate, convey, clarify and confirm client requirements for design
Numeracy	Apply financial modelling skills to identify, analyse and evaluate budgetary information, time durations and resource allocations for integrated permaculture system design

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER514 Design an integrated	AHCPER502 Design an integrated	Minor changes to	Not equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
permaculture system	permaculture system	Application Minor changes to Elements for clarity Changes to sequencing of Performance Criteria for clarity and brevity Merged research content from deleted unit AHCPER507 Research and interpret requirements for a permaculture project	
AHCPER514 Design an integrated permaculture system	AHCPER507 Research and interpret requirements for a permaculture project	Minor changes to Application Minor changes to Elements for clarity Changes to sequencing of Performance Criteria for clarity and brevity Merged research content from deleted unit AHCPER507 Research and interpret requirements for a permaculture project	Not equivalent

Links

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