



Australian Government

AHCPER415 Plan and implement permaculture works

Release: 1

AHCPER415 Plan and implement permaculture works

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 prepare and plan permaculture works and implement and monitor the plan, including scoping of the work, planning on-site work health and safety, scheduling equipment, materials and work activity, minimising environmental impact during works, and supervising and monitoring work team activities.

The unit applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources.

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. Prepare for permaculture works	1.1 Confirm and verify client preferences and contract requirements 1.2 Verify scope of works in permaculture works plan with client 1.3 Verify statutory obligations and permits

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Conduct site visit to confirm details of permaculture works 1.5 Identify health and safety hazards associated with the permaculture works and develop site safety plan 1.6 Verify availability, quantity and costs of plants and materials specified in works plan 1.7 Verify resources, tools and equipment required for permaculture works 1.8 Confirm availability of resources, tools and equipment with suppliers and contractors 1.9 Verify site access and establishment procedures according to works and environmental management plan
2. Plan and schedule permaculture works	2.1 Source tools and materials required for project 2.2 Allocate and schedule materials, resources and work tasks according to specifications and project timelines 2.3 Determine and plan establishment and maintenance phases of works 2.4 Determine impact of seasonal factors on works and incorporate into staging strategy 2.5 Identify potential impediments to implementation, and prepare contingencies 2.6 Collate planning information and prepare a permaculture works plan
3. Implement the permaculture works	3.1 Implement safety plan for permaculture work site 3.2 Oversee supply and delivery of materials and equipment 3.3 Assemble human resources and allocate team leaders 3.4 Conduct briefing sessions for safety and works activities according to safety and works plans 3.5 Supervise progress of works and implement contingencies for discrepancies
4. Monitor and finalise permaculture works	4.1 Monitor environmental impact and implement controls according to environmental management plan 4.2 Monitor resource usage and costs according to budget and planned works 4.3 Inspect site on completion and confirm works outcomes against

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	permaculture works plan 4.4 Confirm and sign off completed works with client and other stakeholders 4.5 Report completion of permaculture works 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
Oral communication	Use collaborative and inclusive techniques, including active listening and questioning and reading of verbal and non-verbal signals, to convey, clarify and verify client requirements
Numeracy	Apply financial modelling skills to identify, analyse and evaluate budgetary information, time durations and resource allocations for permaculture system works

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER415 Plan and implement permaculture works	AHCPER404 Plan and implement permaculture works	Minor changes to Application Major changes to Elements and Performance Criteria for clarity and to emphasise planning and implementation components Changes to Performance Evidence, Knowledge Evidence and Assessment	Not equivalent

		Conditions for clarity	
--	--	------------------------	--

Links

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

Assessment Requirements for AHCPER415 Plan and implement permaculture works

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, planned and implemented permaculture works and has:

- confirmed and verified planned permaculture works and associated resources and constraints
- developed a staged implementation plan for permaculture works, which must include:
 - amounts and source of resources and materials
 - a schedule of resources, materials and work tasks
 - tools and equipment required
 - plans for establishment and maintenance phases
 - seasonal factors and their impact
 - planned contingencies
 - a documented works plan
- implemented a permaculture works plan, including:
 - communicated works activities and safety requirements to work teams
 - oversaw supply and delivery of resources
 - supervised works progress
 - implemented contingencies for discrepancies
- monitored environment impact and controls and resource usage and costs
- checked completed works against plan and confirmed and signed off works with client and stakeholders
- reported completion according to workplace 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:

- permaculture principles and practices
- permaculture works, including:
 - implementing permaculture designs
 - following a permaculture works plan as part of a permaculture project
 - constructing permaculture structures and features
 - implementing permaculture earthworks
- practical understanding of the environmental issues associated with undertaking permaculture works, including:
 - use of materials that come from sustainable sources
 - duty of care in conserving site's natural values
 - work practices
 - the use and movement of machinery, storage of materials, removal of weeds and movement of soil and other materials into, across and beyond the site
- principles of ecology, including specific plant and animal relationships and habitat requirements
- statutory compliance and obligations, including:
 - compliance with legislation, ordinances, regulations or bylaws relating to the works or the work site
 - site responsibilities, including work health and safety, industrial relations and equal opportunity and employment
- site evaluation techniques, including methods of analysing soils, waterways and their condition
- practical understanding of the advantages and disadvantages of a range of permaculture procedures
- selection and use of appropriate combinations of machinery and tools
- work health and safety hazards associated with undertaking permaculture works, and the controls necessary to remove or minimise risks associated with them
- contract documentation, including specifications, plans of permaculture works, services, supplies and surveyors documents
- scope of works determination
- works' breakdown into tasks
- scheduling and timeline generation
- task specifications and evaluation.
-

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 design or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools, equipment, materials and resources for permaculture works
 - site safety equipment
- specifications:
 - workplace policies, procedures, processes
 - manufacturer operating instructions for equipment and machinery
 - budget
 - client brief and permaculture system design
 - specific legislation, regulations and codes of practice for work sites
 - environmental management plan
- relationships:
 - client and stakeholders
 - work team/contractors
- timeframes:
 - according to time specified in schedules.

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>