



Australian Government

AHCPER517 Plan and supervise the implementation of permaculture project works

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.

Application

This unit of competency describes the skills and knowledge required to scope, plan and implement a permaculture project, including identifying and preparing site health and safety procedures, scoping and planning the equipment and materials required, scheduling and sequencing the work, organising and supervising project works, and monitoring quality for a permaculture project.

The unit applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They take accountability for the work of others and analyse, design and communicate solutions to a range of 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. Prepare for permaculture project works	1.1 Confirm and verify client preferences and contract requirements for project 1.2 Determine scope of works

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify specific statutory obligations 1.4 Inspect site and verify site conditions and characteristics against permaculture project plan 1.5 Investigate, assess and resolve technical challenges identified from site visit 1.6 Review scope of works and contract requirements according to permaculture and organic principles 1.7 Prepare site-specific procedures for health and safety and environmental hazards according to workplace procedures and statutory obligations
2. Investigate resource issues associated with works	2.1 Verify availability, quantity and costs of materials specified in project plan and schedules 2.2 Identify and cost material resources, tools and equipment required for works 2.3 Confirm availability with suppliers, contractors and stakeholders 2.4 Confirm site access and establishment issues and plan for environmental impact
3. Prepare a project works plan	3.1 Prepare a statement of works for project 3.2 Prepare a safety plan for project work 3.3 Specify tools and materials and their source for required project works 3.4 Prepare a staged sequential program of works according to scheduled timelines 3.5 Prepare specifications for project resources and works outcomes 3.6 Verify program of works complies with industry standards and practices 3.7 Determine the establishment and maintenance periods for works 3.8 Incorporate seasonal factors and impact in staging strategy 3.9 Develop and prepare a works plan according to workplace and industry standards
4. Implement project works plan	4.1 Supervise project work activity 4.2 Coordinate delivery of materials and equipment according to workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.3 Assemble and brief site-specific human resources 4.4 Undertake health and safety briefings according to project health and safety plan 4.5 Implement project works according to sequence, scheduled timelines and specifications 4.6 Monitor, verify and resolve quality issues for substandard works 4.7 Resolve substandard work according to project plan and workplace procedures 4.8 Monitor and resolve environmental impact of project works according to project plan and environmental procedures
5. Inspect and finalise completed project works	5.1 Inspect and assess works against project outcomes and specifications with client 5.2 Resolve substandard work identified during works inspection 5.3 Confirm completion of works with client 5.4 Close project 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	• Develop plans and procedural texts for permaculture activities using clear and industry specific language in order to convey explicit information, requirements and recommendations • Prepare documentation that expresses ideas, explores complex issues and is constructed logically, succinctly and accurately
Oral communication	• Establish and maintain complex and effective communications during negotiations, discussion and confirmation of works with stakeholders, demonstrating a depth of understanding of complex oral texts

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER517 Plan and supervise the implementation of permaculture project works	AHCPER505 Plan and supervise the implementation of permaculture project works	Changes to Application for clarity Split Element and reviewed sequencing of Performance Criteria for clarity Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity Addition of Foundation Skills	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>

Assessment Requirements for AHCPER517 Plan and supervise the implementation of permaculture project works

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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, planned and supervised the implementation of a permaculture project and has:

- determined and reviewed project scope of work
- inspected site and verified site characteristics against project plan, including:
 - biophysical
 - environmental
 - historical
- assessed and resolved site technical challenges associated with implementation of permaculture works
- prepared schedules for implementation of permaculture works
- prepared a staged permaculture works plan
- prepared site-specific health, safety and environmental procedures
- engaged and briefed human resources on works and health and safety
- supervised permaculture project works and monitored and rectified quality issues
- inspected and finalised project works with client.

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 and organic principles and practices
- types and characteristics of permaculture project works, including:
 - food and community gardens
 - urban and rural permaculture systems
 - aquaculture, horticulture, forest systems
 - agriculture grazing and pasture systems

- integrated food, fibre and energy systems
- permaculture infrastructure requirements
- sustainable soil management
- water management and distribution
- natural ecosystem conservation and regeneration
- permaculture design techniques, including zone and sector planning
- physical and biophysical factors of a site, including:
 - location and boundaries of site
 - environmental considerations
 - site access issues
 - utility service
 - adjacent landholder considerations
 - security issues
 - climatic conditions, including rainfall, humidity, wind and sunlight intensity
 - soil types and characteristics, including nutrients and deficiencies
 - property characteristics, including slope, aspect, natural and artificial watercourses, outcrops of rock, presence of significant vegetation
 - weeds and existing plants
 - feral or indigenous animals and their management
- 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 sites 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 by-laws relating to the works or the work site
 - site responsibilities, including OHS, industrial relations and equal opportunity and employment
- site evaluation techniques, including methods of analysing soils, waterways and their condition
- soil conservation, erosion control and enhancement techniques and their advantages and disadvantages in reference to specific sites and habitats
- selection and use of machinery and tools
- work health and safety hazards, risks and controls
- contract documentation, including specifications, plans of permaculture works, services, supplies and surveyors documents
- planning and documenting project works, including:

- scope of works
- statement of works
- works breakdown into tasks
- scheduling and timelines
- quality assurance in project works, including interpretation and evaluation of specifications.

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:
 - tools, equipment and resources of permaculture works
 - personal protective equipment
 - materials for project
- specifications:
 - workplace policies, procedures, processes
 - manufacturer operating instructions for equipment and machinery
 - safety data sheets
 - project plans and specifications
 - specific legislation and industry codes of practice
- relationships:
 - clients
 - work team and other stakeholders
- timeframes:
 - according to times specified in project plan.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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