



**Australian Government**

# **AHCPER328 Establish organic garden and orchard systems**

**Release: 1**

# AHCPER328 Establish organic garden and orchard systems

## 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 apply permaculture principles for establishing organic garden and orchard systems from permaculture plans, including selecting plants for site conditions and requirements to achieve optimum production.

The unit applies to individuals who work under broad direction and take responsibility for their own work, including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources, and complete routine activities.

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. Assess site for organic garden and orchard system | 1.1 Access and interpret permaculture system plans and specifications for site and client needs<br>1.2 Inspect site for environmental and physical attributes<br>1.3 Inspect site and locate existing structures and services<br>1.4 Identify location of gardens and orchard |

| 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 Identify site constraints and opportunities<br>1.6 Verify site inspections with plans and specifications and identify inconsistencies<br>1.7 Rectify inconsistencies with key stakeholders and update plans and specifications<br>1.8 Prepare zone and sector plan of garden and orchard according to verified permaculture system plan                                                                             |
| 2. Select plants for organic garden and orchard system         | 2.1 Test soil and analyse results for garden and orchard locations<br>2.2 Select plant varieties and types according to soil type, permaculture plan and client production needs<br>2.3 Determine number and size of plant material according to planned garden and orchard outcomes<br>2.4 Identify and source planting material according to permaculture system plan                                                 |
| 3. Develop planting plan for organic garden and orchard system | 3.1 Identify zone and sector details from permaculture plan<br>3.2 Identify and locate plants to be installed on a planting plan<br>3.3 Document a schedule of planting actions, timelines and specifications according to workplace procedures                                                                                                                                                                         |
| 4. Prepare site and plant organic garden and orchard system    | 4.1 Prepare planting materials according to plant type and schedule<br>4.2 Prepare gardens and orchard site for planting<br>4.3 Locate and plant species according to planting plan<br>4.4 Provide planting with nutrition and soil moisture according to permaculture system design and organic plant standards<br>4.5 Record and report garden and orchard planting system activity 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 |
|-------|-------------|
|-------|-------------|

| Skill    | Description                                                                                                                                                                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading  | <ul style="list-style-type: none"> <li>Interpret plans, specifications and other documentation for permaculture system, and extract relevant data</li> <li>Consolidate information to determine requirements for establishment of a permaculture garden and orchard systems</li> </ul> |
| Numeracy | <ul style="list-style-type: none"> <li>Perform calculations on soils sample tests to establish base line conditions</li> <li>Make calculations appropriate for measuring and estimating materials for gardens and orchard establishment</li> </ul>                                     |

## Unit Mapping Information

| Code and title current version                            | Code and title previous version                   | Comments                                                                                                                                                                                                                                                                                                      | Equivalence status |
|-----------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| AHCPER328<br>Establish organic garden and orchard systems | AHCPER312 Plan organic garden and orchard systems | <p>Change to Title to reflect work activity at AQF 3</p> <p>Changes to Application, Elements and Performance Criteria to align to establishing gardens and orchards</p> <p>Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity</p> <p>Addition of Foundation Skills</p> | 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 AHCPER328 Establish organic garden and orchard systems

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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, on at least one occasion, established an organic garden and orchard in a permaculture system, and has:

- acquired and interpreted permaculture system plans for a site
- inspected site for key features, verified against plans and rectified inconsistencies
- prepared a garden and orchard zone and sector plan for garden and orchard
- tested soil for garden and orchard locations and analysed results
- selected plants and plant types suitable for soil and permaculture system design
- developed garden and orchard planting plan and schedule of activities
- prepared garden and orchard site for planting
- acquired, prepared and planted the following:
  - fruit tree guild for an orchard system
  - annual garden bed
- recorded and reported garden and orchard planting activity
- complied with permaculture and organic systems standards.
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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 and ethics
- permaculture site planning, including:
  - boundaries of sites drawn at an appropriate scale
  - direction of North (or sunward)
  - location of plants
  - information relevant to a permaculture garden and orchard systems

- drawing skills required for clarity and consistency
- graphic styles
- planting schedules and timelines, including Gantt charts
- zone and sector planning, including:
  - zones for garden and orchard systems (Zones 1 and 2)
  - sector information, including prevailing winds, fire aspect, winter and summer sun angles, best locations for sun-loving and shade-tolerant species
  - microclimate information
  - zone and sector plans drawn as overlays to a site plan
- garden and orchard systems, including:
  - an orchard with 5 to 10 or more assorted fruit trees or shrubs
  - integrated plant and animal systems
  - consideration of and design for plant ecosystem relationships
- soil structure, types and function, including soil tests
- soil maintenance and improvement techniques
- aims and purposes of building organic garden and orchard systems
- design principles for organic garden and orchard systems
- features and characteristics of plants used in organic garden and orchard systems
- preparation, planting and growing requirements for organic garden and orchard systems
- source of planting material, including biosecurity principles
- workplace health and safety policies and principles.
- 

## Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated on a permaculture system site or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - tools and equipment for establishing garden and orchard systems
  - personal protective equipment
  - drawing and planning equipment
- specifications:
  - permaculture system plans and specifications
  - workplace procedures and processes
  - plant materials for organic garden and orchard
  - specific codes of practice for organic growing
  - permaculture principles.

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

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