



Australian Government

AHCPER336 Test, improve and maintain healthy soil in a permaculture system

Release: 1

AHCPER336 Test, improve and maintain healthy soil in a 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 test soils, develop a soil improvement plan and maintain the health of soil in a permaculture system.

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. Sample soil in a permaculture system	1.1 Determine site and purpose for soil tests in a permaculture system 1.2 Collect soil samples according to workplace procedures 1.3 Prepare and label soil samples according to soil testing procedures
2. Test soil for structural requirements and plant	2.1 Carry out soil tests according to testing procedures and industry standards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
needs	2.2 Arrange and submit soils for laboratory nutrient testing according to identified purpose, workplace procedures and laboratory requirements 2.3 Collate and record test results for each sample according to workplace and testing procedures
3. Determine soil improvement requirements	3.1 Determine requirements for soil improvement from test results 3.2 Identify soil biota and develop strategy to optimise biodiversity 3.3 Investigate soil improvement options 3.4 Confirm soil improvement options with experienced stakeholders
4. Develop and implement soil improvement plan	4.1 Develop a plan and schedule for soil improvement according to site requirements, purpose and test results 4.2 Calculate rates of soil additives and supplements according to permaculture and organic principles 4.3 Apply additives and supplements according to permaculture and organic principles 4.4 Implement strategy to optimise soil biota
5. Maintain health of soil according to organic and permaculture principles	5.1 Monitor and record performance of soil improvement plan 5.2 Amend soil improvement plan for identified poor performance 5.3 Monitor and modify cultural practices with potential to cause deterioration of soil health

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	Document soil sample accurately, maintaining traceability throughout testing and recording procedures
Numeracy	Accurately perform calculations relevant to tests performed to establish baseline for soil health

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPER336 Test, improve and maintain healthy soil in a permaculture system	AHCPER319 Test, improve and maintain healthy soil in a permaculture system	Changes to Application, Elements and Performance Criteria for clarity Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity Addition of Foundation Skills	Equivalent

Links

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