



Australian Government

AHCORG411 Manage organic soil improvement

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 monitor soil conditions, assess improvements required and develop and implement a soil improvement program according to national standards for organic and biodynamic production.

The unit applies to individuals who take responsibility for their own work and for the quality of the work of others within known parameters, and use discretion and judgment 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

Organic Production (ORG)

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. Monitor indicators of soil fertility	1.1 Determine the objective for soil condition for farm according to workplace conditions and organic agriculture standards 1.2 Develop baseline data from soil sample and test conducted on reference sites across property according to organic industry standards 1.3 Assess and record soil chemical and physical characteristics 1.4 Assess and record soil biological activity

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>1.5 Analyse test results to identify trends in soil health and fertility and areas for improvement</p> <p>1.6 Identify health, safety and environmental hazards, assess risk and implement controls according to workplace procedures</p>
2. Assess soil-related factors for selected plants	<p>2.1 Identify nutritional requirements of selected plant species</p> <p>2.2 Conduct field observations of plants and soil to identify possible defects</p> <p>2.3 Select soil and plant tissue tests for laboratory testing</p> <p>2.4 Sample plant tissue and soils according to testing laboratory specifications</p> <p>2.5 Determine management and input requirements for farming system according to soil and plant tissue test results and observations</p>
3. Select, design and implement allowable systems, techniques and inputs to optimise soil fertility	<p>3.1 Identify range of permitted inputs according to National Standard for Organic and Bio-Dynamic Produce</p> <p>3.2 Identify and implement cultural practices to enhance soil fertility, function and health</p> <p>3.3 Calculate inputs based on soil and plant analyses, and observations</p> <p>3.4 Select and manage cover crop and pasture systems according to workplace procedures</p> <p>3.5 Develop, apply and monitor mulching and composting systems according to production plan</p> <p>3.6 Design and implement crop rotations and grazing management systems to optimise soil fertility according to production plan</p>

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
Reading	<ul style="list-style-type: none"> Analyse organic production principles, standards and certification procedures to ensure compliance with organic soil improvement strategies

Skill	Description
Writing	<ul style="list-style-type: none"> Develop procedural material for organic production using clear industry specific language in order to convey explicit information for soil improvement
Numeracy	<ul style="list-style-type: none"> Perform mathematical calculations to interpret and condense complex soil test results when developing soil improvements for organic farm

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCORG411 Manage organic soil improvement	AHCORG403 Manage organic soil improvement	<p>Minor changes to Application</p> <p>Minor edits and changes to sequencing of Performance Criteria for clarity</p> <p>Changes to Performance Evidence, Knowledge Evidence and Assessment Conditions for clarity</p> <p>Foundation Skills added</p>	Equivalent

Links

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