



Australian Government

AHCSOL304 Implement soil improvements for garden and turf areas

Release: 1

AHCSOL304 Implement soil improvements for garden and turf areas

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to collect and test soil samples for their physical and chemical characteristics and take corrective action to improve the soil for garden beds and turf areas.

The unit applies to individuals who carry out soil improvements under general direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Soil (SOL)

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 and collect soil samples for testing	1.1 Identify purpose and method of soil sampling and testing 1.2 Select tools, equipment and materials required for safely collecting soil samples according to testing procedures 1.3 Collect representative soil samples for testing 1.4 Package and label soil samples ready for testing according to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	laboratory procedures
2. Determine physical characteristics of sample	<p>2.1 Conduct tests to determine the physical characteristics of soils according to laboratory procedures and safe work practices</p> <p>2.2 Identify depth of topsoil and assess suitability for cultural requirements of plants to be grown</p> <p>2.3 Assess soil physical characteristic test results to determine drainage and water holding performance</p> <p>2.4 Identify and select soil improvements required to meet cultural requirements of plants to be grown</p> <p>2.5 Prepare a soil improvement plan for improving physical characteristics</p>
3. Determine chemical characteristics of sample	<p>3.1 Conduct tests to determine chemical properties of soil according to laboratory procedures and safe work practices</p> <p>3.2 Assess soil chemical properties test results to determine effect on cultural requirements of plants to be grown</p> <p>3.3 Identify and select soil chemical improvements required to meet cultural requirements of plants to be grown</p> <p>3.4 Update soil improvement plan for improving chemical characteristics</p>
4. Prepare soils for planting or replanting	<p>4.1 Select tools, equipment and materials required to safely incorporate soil treatments according to soil improvement plan</p> <p>4.2 Calibrate equipment to ensure application of soil improvement material complies with improvement plan</p> <p>4.3 Implement soil improvement plan for garden and turf areas</p> <p>4.4 Adjust soil levels and consolidate ready for planting</p> <p>4.5 Record and report work outcomes according to workplace procedures</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
Writing	<ul style="list-style-type: none"> Complete workplace documentation accurately and clearly using industry terminology, correct spelling and required format
Numeracy	<ul style="list-style-type: none"> Perform weight and volumetric measurements when preparing and assessing soil tests Calculate soil improvement materials to include in the soil improvement plan, including distance, area, volume and ratio

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSOL304 Implement soil improvements for garden and turf areas	AHCSOL303 Implement soil improvements for garden and turf areas	Performance criteria clarified Foundation skills added Performance evidence, knowledge evidence and assessment conditions expanded	Equivalent unit

Links

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