



Australian Government

AHCCFP401 Increase soil organic carbon using land management practices

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 4.0.

Application

This unit of competency describes the skills and knowledge required to identify the benefits of increasing soil organic carbon for soil condition or soil health, and to implement a project to increase soil carbon.

The unit applies to individuals who participate in farming and/or land management activities. It may lead to participation in an approved carbon farming project to generate carbon credits.

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

Pre-requisite Unit

Nil

Unit Sector

Carbon Farming (CFP)

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. Identify benefits of increasing soil organic carbon	1.1 Identify the role, and forms, of soil organic carbon in soil 1.2 Identify carbon as a component of soil organic matter 1.3 Analyse the benefits of increasing soil organic carbon in soil 1.4 Identify the role of photosynthesis in increasing soil organic carbon 1.5 Determine land management practices that store or sequester

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	carbon 1.6 Identify other interactions of ecosystem processes in increasing soil organic carbon
2. Identify co-benefits of increasing soil organic carbon	2.1 Identify land management practices to increase soil organic carbon 2.2 Consider the social and cultural, environmental and economic benefits of increasing soil organic carbon
3. Plan project to increase soil organic carbon	3.1 Identify site for soil carbon project 3.2 Identify and select a strategy or method to increase soil organic carbon 3.3 Identify equipment and resources required 3.4 Carry out cost-benefit analysis of implementing the project 3.5 Plan strategy to measure soil organic matter in soil, and record results
4. Implement project	4.1 Measure and record soil carbon as baseline for project 4.2 Implement project in line with selected method and document results 4.3 Monitor and maintain soil to preserve soil health through changing conditions

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	Interpret written material focused on increasing carbon in soil
Numeracy	Uses formulae to calculate soil organic matter (SOM)

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCCFP401 Increase soil organic carbon using land management practices	Not applicable	New unit	No 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>