



Australian Government

AHCCFP405 Increase carbon using vegetation and/or agricultural methods

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 carbon in the biosphere, using vegetation and agricultural methods, and to implement a project to reduce emissions or store carbon.

This unit does not cover increasing carbon in soil (refer to AHCCFP401 Increase soil organic carbon using land management practices).

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 carbon	1.1 Identify the role, and forms, of carbon in the environment 1.2 Analyse the benefits of increasing carbon 1.3 Analyse the benefits of reducing greenhouse emissions 1.4 Determine vegetation and/or agricultural practices that increase

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 or reduce greenhouse emissions 1.5 Consider the associated social and cultural, environmental and economic benefits of increasing carbon
2. Identify co-benefits of increasing carbon in the biosphere	2.1 Identify land management practices to increase carbon using vegetation and agricultural methods 2.2 Consider the social and cultural, environmental and economic benefits of increasing carbon in the biosphere
3. Plan project to increase carbon	3.1 Identify appropriate site/s for project methodology 3.2 Choose strategy or method to increase carbon or reduce emissions 3.3 Identify equipment and resources required 3.4 Identify risks associated with undertaking the project 3.5 Carry out cost-benefit analysis of implementing the project 3.6 Plan strategy to measure or model carbon and record results
4. Implement and monitor project	4.1 Measure carbon as baseline for project and document 4.2 Implement project in line with selected method 4.3 Monitor project to maintain carbon storage or reduced emissions through changing conditions and document

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 vegetation and/or agricultural carbon farming methods
Numeracy	Measure or model carbon specific to chosen method

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCCFP405 Increase carbon using vegetation and/or agricultural methods	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>

Assessment Requirements for AHCCFP405 Increase carbon using vegetation and/or agricultural methods

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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 increased carbon using vegetation and/or agricultural methods for a designated plot of land, including:

- identified the direct and associated benefits of increasing carbon
- identified method appropriate to plot of land
- assessed risks associated with project methodology
- calculated costs of carbon project
- planned and implemented a project to increase carbon or reduce greenhouse emissions.

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:

- how land use and management practices impact on carbon
- land management vegetation practices that can increase carbon, such as avoiding clearing of native growth, farm forestry, plantations, controlled burning of savanna, and human-induced regeneration of native forest
- agricultural practices that can increase carbon and/or reduce emissions, such as changes to beef cattle herd management, destruction of methane, feeding dietary additives to cows, changed grazing regimes, and improved herd management
- co-benefits of increased carbon, including:
 - environmental benefits: improved biodiversity above and below ground, improved air, water and soil quality, reduced greenhouse gas emissions, improved movement of water across landscape, reduced salinity/erosion/acidification/compaction, increased resilience to drought, and increased land versatility
 - social benefits: including increased resilience to drought, more stable and diverse income, healthier people and communities, and improved succession planning

- economic benefits: including diversified income streams, increased farm productivity, access to finance, increased land versatility, new skills and career development, and less income spent on supplements and fertilisers
- informal methods for measuring carbon, including use of plots, and vegetation datasets
- industry-specific carbon calculators
- baseline measurements that allow scope for improvement
- approved methods for vegetation and agriculture-based carbon farming projects
- payments available for increasing carbon levels.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - designated plot of land or animal group
 - equipment and resources relevant to method
 - access to information about vegetation or agricultural carbon farming methods and practices.

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

Links

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