Modification history

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

| AHCCFP4X2 | Increase carbon using vegetation and/or agricultural methods |
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| 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 AHCCFP4X1 Increase carbon in soil.  The unit applies to individuals who participate in farming and/or land management activities. It may, or may not, lead on to participation in an approved carbon farming project to generate carbon credits.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite unit | Nil |
| Unit sector | Carbon Farming |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 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 carbon or reduce greenhouse emissions  2.4 Consider the associated social and cultural, environmental and economic benefits of increasing carbon |
| 3. Plan project to increase carbon | 3.1 Identify site/s for project  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 project | 4.1 Measure carbon as baseline for project  4.2 Implement project in line with project method  4.3 Monitor project to maintain carbon storage or reduced emissions 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. | |
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| Skill | Description |
| Reading | * Engage with written material focussed on vegetation and/or agricultural carbon farming methods |
| Numeracy | * Measure or model carbon specific to chosen method |

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| Unit mapping information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCCFP4X2 Increase carbon using vegetation and/or agricultural methods |  | New unit | No equivalent unit |

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

| TITLE | Assessment requirements for AHCCFP4X2 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 in soil for a designated plot of land, including:   * identified the direct and associated benefits of increasing carbon * planned and implemented a project to increase carbon or reduce greenhouse emissions. | |

| Knowledge Evidence |
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| 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, human-induced regeneration of native forest * agricultural practices that can increase carbon and/or reduce emissions, such as changes beef cattle herd management, destruction of methane, feeding dietary additives to cows, changed grazing regimes, 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, increased land versatility * social benefits of carbon farming including: increased resilience to drought, more stable and diverse income, healthier people and communities, improved succession planning * economic benefits of carbon farming, including diversified income streams, increased farm productivity, access to finance, increased land versatility, new skills and career development, less income spent on supplements and fertilisers. * informal methods for measuring carbon, including use of plots, 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 |
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| Assessment of skills must take place under the following 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. |

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