



Australian Government

AHCAGB517 Develop and manage a plan for sustainable production

Release: 1

AHCAGB517 Develop and manage a plan for sustainable production

Modification History

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

Application

This unit of competency describes the skills and knowledge required to develop a farm plan for a rural enterprise to reflect sustainable production principles that may include regenerative, organic, biodynamic or biological farming principles.

This unit applies to those who have a role in managing a farm and the management system to reflect a new philosophy, utilising sustainable principles.

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

Pre-requisite Unit

Nil

Unit Sector

Agribusiness (AGB)

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. Develop goals and objectives to improve biodiversity, recycling and sustainability	1.1 Establish long-term direction and purpose of the business by identifying and analysing the values, expectations and personal goals of the people involved 1.2 Identify business and personal strengths, weaknesses, opportunities and threats and strategies to address them 1.3 Investigate sources of information and support for improved

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	practices 1.4 Estimate timelines for, and costs for improved practices
2. Audit the existing and natural resources on the property	2.1 Draw a property map to include land classes using classification terminology, fences and water systems, natural property features and infrastructure 2.2 Conduct a risk assessment of previous land use and an inventory of chemicals applied or evidence of application on the site 2.3 Identify areas at risk of soil degradation and develop strategies to protect the area 2.4 Develop and implement strategies to improve the health and the regeneration of remnant vegetation to support a diversity of living systems 2.5 Assess potential problem pests and weeds and use strategies to implement an eradication program
3. Develop and implement grazing and cropping strategies to improve sustainable outcomes	3.1 Use soil test results to make recommendations for soil improvement with appropriate organic fertilisers and soil conditioners to ensure a mineral-balanced and healthy soil 3.2 Develop and implement an annual grazing program and strategies to optimise pasture growth and animal production 3.3 Develop and implement a strategy for the recycling of farm waste and effluent 3.4 Assess soil biological activity and apply suitable preparations and grazing strategies to improve the soil biota and soil organic matter 3.5 Identify suitability of mulching and composting systems 3.6 Design and implement a plan using crop rotations to optimise soil fertility 3.7 Research the principles and application of biodynamic preparations
4. Manage livestock health and welfare for improved, sustainable production	4.1 Plan strategies to preserve livestock health including allowable treatments and grazing management in the short term and genetic improvement in the long term 4.2 Maintain livestock records to identify treated animals, including a record of all treatments including homeopathic remedies 4.3 Sustain the animal enterprise with pasture and suitable fodder and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	maintain consumption records to meet certification protocols
5. Manage customer feedback and satisfaction	5.1 Develop procedures to obtain, analyse and respond to customer feedback on farm product quality and integrity 5.2 Implement procedures manage customer feedback and satisfaction with sustainable product quality and integrity

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
Learning	Investigate sustainable principles for production
Reading	Access and interpret information about sustainable farming practices
Numeracy	Carry out calculations to determine carbon footprint of production

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCAGB517 Develop and manage a plan for sustainable production	AHCAGB511 Develop and manage a plan for sustainable production reflecting sustainable production principles	Title updated Performance criteria clarified Foundation skills added Assessment requirements updated	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 AHCAGB517 Develop and manage a plan for sustainable production

Modification History

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

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 developed and managed a plan to improve practices for one land based business to utilise sustainable farming principles, including:

- researched information on production changes and methods to manage herd, crop or pasture
- analysed benefits to the family and farm from adopting the philosophy
- assessed risks involved with conversion
- developed a comprehensive plan to transition production processes and improve sustainability.

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:

- sustainable land management practices including regenerative farming principles
- credible sources of information relating to sustainable farming principles and practices
- property planning process
- water, vegetation, livestock, pasture, soil, fire and wildlife management strategies for sustainable farming
- risk management strategies for land based production processes
- supply chain for the sustainable farming sector and own position in the chain
- methods to manage grazing including feed budgeting and varied grazing strategies
- animal health and options for maintaining health based on pathogen life cycles and the use of suitable preparations
- how to maintain biodiversity to complement a sustainable farming philosophy.

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:
 - access to information about sustainable farming principles
 - land based production site
- specifications:
 - legislation, regulations and codes of practice for sustainable farming.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>