

Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.
AHCAGB510XX	Implement the introduction of biotechnology into the production system
Application	<p>This unit of competency covers the process of evaluating the implications of introducing biotechnology and genetically modified organisms into the current production system. The unit requires producers to identify potential risks and benefits, responsibly manage all aspects of risks to the neighbours, local community, and to the environment, relevant to the existing and new production system.</p> <p>This unit is applicable to those who manage, or provide advice to, land based production businesses. Work will likely require consultation with external experts, such as extension officers from state Agricultural Departments, agribusiness representatives, agronomists and regulators and insurance agencies.</p> <p>All work must be carried out to comply with workplace procedures, work health and safety legislation and codes, and sustainability practices.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Agribusiness (AGB)

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. Evaluate benefits and applications of introducing biotechnology in the production system	1.1 Identify information on biotechnology relevant to the enterprise by researching and analysing potential benefits and ramifications to the production system, the environment and others in the district 1.2 Identify how biotechnology can be integrated into the current production system, to improve business profitability and sustainability 1.3 Compare current and historical production data for the production system with potential for increased production 1.4 Investigate potential risks involved in the introduction of biotechnology to the current production system 1.5 Collate information in a clear and concise manner to inform decisions 1.6 Evaluate the implications for the integration of biotechnology into current production plan
2. Develop an implementation plan for the introduction of biotechnology into production system	2.1 Select the application of biotechnology suitable to local environment, climate, seasonal conditions, business goals and marketing objectives 2.2 Identify required changes to current production systems and develop suitable strategies for the application of a farm production management plan 2.3 Develop risk management strategies including quality assurance (QA) system principles consistent with production plan requirements and marketing boards 2.4 Identify all relevant legislation, regulatory and product supplier requirements and implement according to the production plan 2.5 Identify key roles and responsibilities of personnel including training requirements 2.6 Develop an implementation production management plan including risk management strategies and QA systems

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Implement and manage biotechnology into the production system	3.1 Implement production, infrastructure and land management plans 3.2 Implement the risk management strategies for the production plan and record information in QA system 3.3 Manage scheduling of production processes taking organisational factors and paddock usage into consideration 3.4 Manage integration of environmental values into the production process 3.5 Monitor risk management strategies plan and identify problems and issues by conducting a risk management audit on property
4. Evaluate management strategies	4.1 Evaluate potential results of threats in terms of natural resources, business assets, infrastructure, environmental and community 4.2 Identify preventative and reactive action and develop further contingency plans to minimise threats and maximise opportunities 4.3 Review risk management strategies plan aimed at ensuring business stability, sustainability and profitability, while protecting and preserving natural resources and business assets 4.4 Evaluate production plan for the introduction of biotechnology into production system

Foundation Skills	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret, analyse and extract information from a range of sources such as professional literature, legal documents, policies and procedures
Oral communication	<ul style="list-style-type: none"> Interact effectively with industry contacts, colleagues and advisors

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCAGB510XX Implement the introduction of biotechnology into the production system	AHCAGB510 Implement the introduction of biotechnology into the production system	Performance criteria clarified. Foundation skills added. Assessment requirements updated.	Equivalent

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

TITLE	Assessment requirements for AHCAGB510XX Implement the introduction of biotechnology into the production system
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has introduced biotechnology into a land based production system on at least one occasion, including:</p> <ul style="list-style-type: none"> • researched implications of introducing biotechnology into one business • recognised potential opportunities of introducing biotechnology • conducted a risk management audit before and after the introduction of biotechnology products • completed and maintained appropriate quality assurance documentation. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • benefits and risks of introducing biotechnology into a production system, including those arising from climate change, pressure on global food supplies and the management of pests and diseases • principles of sustainability • state/territory legislation, regulations and codes of practice relevant to biotechnology and the development and use of genetically modified (GM) organisms in Australia • use and control of hazardous substances in production systems • methods of risk assessment for the production system • implementing, monitoring and maintenance of a Total Quality Management System (TQMS) • issues presented to other farmers and community when using biotechnology in a production system. 	
Assessment Conditions	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • access to information about biotechnology • land based production site • specifications <ul style="list-style-type: none"> • legislation, regulations and codes of practice relevant to use of biotechnology in land based businesses. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	<p>Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</p>