



Australian Government

AHCAGB510 Implement the introduction of biotechnology into the production system

Release: 1

AHCAGB510 Implement the introduction of biotechnology into the production system

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency covers the process of evaluating the implications of introducing bio-technology and genetically modified organisms into the current production system. Strategies are developed to implement and monitor the integration of bio-technology products in a sustainable system by preparing strategies for the implementation, monitoring and evaluating the integration bio-technology products into the production plan.

This technology will require 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.

All work must be carried out to comply with workplace procedures, work health and safety legislation and codes, and sustainability practices.

This unit is applicable to persons who have a role in managing a land based production business. This unit is likely to require consultation with external experts, such as extension officers from State Agricultural Departments, Agri-business representatives, agronomists and regulators including insurance agencies.

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

Element	Performance criteria
Elements describe the	Performance criteria describe the performance needed to demonstrate

Element	Performance criteria
essential outcomes.	achievement of the element.
1. Evaluate benefits and applications of introducing bio-technology in the production system	1.1 Identify information on bio-technology 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 Explain how bio-technology 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 bio-technology to the current production system 1.5 Collate information in a clear and concise manner to determine informed decisions 1.6 Evaluate the implications for the integration of bio-technology into current production plan
2. Develop an implementation plan for the introduction of bio-technology into production system	2.1 Select the application of bio-technology 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
3. Implement and manage bio-technology 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 organization factors and paddock operation 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	4.1 Evaluate potential results of threats in terms of natural resources,

Element	Performance criteria
strategies	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 bio-technology into production system

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

New unit - equivalent to VBP154 Implement the introduction of biotechnology into the production system.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AHCAGB510 Implement the introduction of biotechnology into the production system

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- research implications of introducing bio-technology for business
- identify applications for business and production systems
- develop and implement plans for production systems and risk management strategies
- recognise potential opportunities of introducing bio-technology (business and production)
- assess and adopt profitable innovations from the use of bio-technology products
- interpret, analyse and extract information from a range of sources such as professional literature, legal documents, discussions and workshops
- undertake cost benefit analysis in relation to the introduction of bio-technology
- communicate with industry contacts, colleagues and family regarding the land/farm based business
- design risk management strategies including installing a Total Quality Management System (TQMS)
- conduct a risk management audit before and after the introduction of bio-technology products
- complete and maintain appropriate quality assurance documentation for a TQMS.

Knowledge Evidence

The candidate must demonstrate knowledge of:

- benefits and risks of introducing biotechnology into a production system
- principles of sustainability
- relevant State/Territory legislation, regulations and codes of practice with regards to work health and safety, use and control of hazardous substances and biotechnology in production systems
- financial cost analysis tools and techniques

- methods of risk assessment audits for the production system
- implementing, monitoring and maintenance of a Total Quality Management System (TQMS)
- stewardship to fellow farmers and community when using bio-technology in a production system.

Assessment Conditions

Competency is to be assessed in the workplace or simulated environment that accurately reflects performance in a real workplace setting.

Assessors must satisfy current standards for RTOs.

Links

Companion Volume implementation guides are found in VETNet -

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