Modification history

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

AHCAGB507XX	Select and use agricultural technology
Application	This unit of competency covers the selection and application of modern agricultural technology in production systems. Applications include the recording and reporting of farm activities, mapping, farm and production planning, data collection and analysis and variable rate technology.
	This unit is applicable for land managers or advisors who have a role in managing or operating a land based production business or providing expert advice.
	Applications in agricultural science range from spatial information tools to the precision application of production inputs and growth models for the improvement of production.
	All work must be carried out to comply with workplace procedures, work health and safety legislation and codes, and sustainability practices.
	No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Agribusiness (AGB)

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
1. Evaluate the need for agricultural technology	1.1 Identify and evaluate organisational tasks and processes that could be supported by technological applications 1.2 Assess opportunities and limitations for operational improvements that may result from adopting specific technological applications 1.3 Evaluate equipment, tools and resource requirements and select the most appropriate options 1.4 Evaluate the cost-benefit of using technology 1.5 Seek independent technical advice and sources of information as required 1.6 Develop a plan to incorporate the use of technology to improve operational efficiency, productivity and sustainability
2. Implement technology to manage production	2.1 Record, analyse and manage production data using technology 2.2 Develop treatment strategies or input requirements using technology 2.3 Collect, store and analyse data across the land based business using technology 2.4 Research information resources, report and communicate production management using technology 2.5 Integrate the use of technology to improve operational efficiency, production, profitability and sustainability

Elements	Performance Criteria
Elements describe the essential outcomes.	*Performance criteria describe the performance needed to demonstrate achievement of the element.*
3. Evaluate the use of technology	3.1 Develop and review strategies to ensure the use of technology is cost effective and consistent with operational goals 3.2 Assess the need for additional training and support 3.3 Develop strategies to address barriers to the effective use of technology when necessary 3.4 Evaluate the impact of technology use on production levels, input costs and the cash flow budget 3.5 Develop strategies for monitoring, evaluating and incorporating future developments in technology

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
Get the work done	• Problem solve issues as they arise

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCAGB507XX Select and use agricultural technology	AHCAGB507 Select and use agricultural technology	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 AHCAGB507 Select and use agricultural technology**

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 selected and used at least two technological products for agricultural production, including:

- identified a range of technologies and explained how they can be applied in an agricultural production system
- obtained and processed production data using technology
- identified and managed issues that have arisen in the use of the technology
- completed a cost and benefits analysis of using the technological product.

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:

- trends and developments in technology relevant to agriculture
- sources of information related to agricultural technology
- basic principles of cost-benefit analysis
- context in which particular organisations operate and how this may impact on the selection and use of technology
- potential barriers to learning to use technological applications, and strategies to address these
- range of technology options available to support organisational activities
- strategies that can be used to evaluate technology use
- training and technical support options available to the organisation to develop skills in the use of technology.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
    - skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
    - sources of information about agricultural technology
    - computer-based technology and software relevant to the agricultural production business.

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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