



Australian Government

Assessment Requirements for AHCAGB516 Select and implement a GIS for sustainable agricultural systems

Release: 1

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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 selected and implemented a Geographic Information Systems (GIS) management system to aid at least one farm management activity, including:

- stored and modelled data for specific site
- analysed maps and models to determine appropriate farm management activity
- implemented one GIS based activity to manage either:
 - yield
 - soil health
 - erosion
 - pests
 - weeds
 - or other crop related factors.

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:

- applications of GIS based technology to assist with managing soil, salinity, erosion, weeds farming systems and biodiversity
- uses of Global Positioning Systems (GPS) equipment and technology associated with GIS
- sources of digital mapping data for local area
- financial management and strategic planning benefits from the implementation of a GIS
- mapping principles of GIS
- spatial calculations using GIS
- relevant machinery and equipment for use in agricultural systems.

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:
 - GIS and GPS technology
 - designated site for land-based production.

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>