



Australian Government

Assessment Requirements for AHCWAT503 Manage water systems

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and 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 managed water systems on at least one occasion and has:

- assessed soil and water resources
- analysed performance and audit data
- assessed environmental and workplace health and safety data
- monitored and assessed water inputs
- monitored and evaluated irrigation system performance
- strategically managed irrigated production systems, including:
 - considered energy costs
 - minimised water wastage
 - prevented poor water usage practices.

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:

- principles and practices of water systems management, including:
 - cost or benefit analysis
 - workplace policies and procedures
 - environmental impacts of irrigation, using water from any ground or underground source
 - plant requirements
 - natural water system retention and storage
 - soil moisture storage
 - use of yeomans keyline or swales
 - assessing water inputs

- strategies for reducing water evaporation and transpiration
- water quality maintenance.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represent workplace conditions
- resources, equipment and materials:
 - performance data, audit reports, environmental and workplace health and safety data for existing systems
 - alternative system information
- specifications:
 - irrigation system design information
- timeframes:
 - according to the job requirements.

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>