



Australian Government

Assessment Requirements for AHCWAT504 Design water treatment 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 6.0.

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 designed a water treatment system on at least one occasion, and has:

- identified system design requirements
- documented construction specifications, performance indicators and design calculations
- collected and analysed information for the design of a water treatment system
- identified adverse environmental impacts of water treatment activities, and documented appropriate remedial actions
- calculated and documented capital and operating expense budgets
- developed water treatment system specifications.

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 treatment system design, including:
 - automatic control and monitoring systems
 - budgeting, contractual development and obligations
 - design processes
 - developments in water treatment technology
 - environmental impacts of water treatment
 - environmental protection agency regulations
 - waste management and environmental issues
- workplace health and safety and environmental protection legislation and regulations, codes of practice and workplace policies and procedures relevant to water treatment system design
- water treatment systems, including pumping and power systems.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - water treatment system site
 - site information and data relevant to water treatment system design
- specifications:
 - local, state and federal workplace health and safety and environmental protection legislation, regulations, codes of practice and workplace requirements applicable to water treatment system design
- relationships:
 - local authorities, appropriately experienced and qualified person
- timeframes:
 - according to 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>