



Australian Government

MSS015028 Conduct a sustainable water use audit

Release: 1

MSS015028 Conduct a sustainable water use audit

Modification History

Release 1. Updated unit code. Changes to performance criteria. Range of conditions removed. Assessment requirements amended. Equivalent outcome.

Application

This unit describes the skills and knowledge required to conduct a water audit in an organisation, or part or all of a value chain.

This unit applies to a water use audit conducted to assist in regulatory compliance or as part of a strategy to improve the sustainability of operations. The emphasis in the unit is on informing decision making regarding water use.

This unit applies to a manager or technical specialist who has a major responsibility for sustainability as part of a broader work role or sustainability may be their primary work responsibility. The manager or technical specialist may undertake this alone or as part of a team.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

Nil

Competency Field

Sustainable operations

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Identify all sources and uses of water in process	1.1	Identify and categorise by quality all sources of water external to the site
		1.2	Identify and categorise by quality all sources of water within the site
		1.3	Identify all uses of water by process and category

Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
		1.4	Identify water quality required by each process unit
2	Calculate theoretical use of water	2.1	Calculate theoretical net use of water for each process unit
		2.2	Calculate overall water balance for process or site
		2.3	Evaluate the need for water consumption and water quality by process and units within the process compared to alternative processes or units
3	Measure actual use of water	3.1	Calculate actual net water use for overall process or site
		3.2	Calculate actual net water use for each process unit
		3.3	Calculate difference between theoretical and actual water use by unit and overall
		3.4	Identify actual water quality used by each process unit
4	Develop strategies for reducing the use of water	4.1	Rank units by difference between theoretical and actual water use
		4.2	Rank units by actual water use
		4.3	Identify units using higher quality water than required
		4.4	Develop strategies to reduce water consumption and use lower quality water
5	Prepare a report for a water use reduction strategy	5.1	Consult with key stakeholders
		5.2	Identify strategies required to meet regulatory requirements
		5.3	Rank strategies by cost-benefit ratio
		5.4	Short-list preferred water reduction strategies

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 5.5 Write report to provide recommendation for improving water usage

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSS015010 Conduct a sustainable water use audit.

Links

The MSS Sustainability Companion Volume implementation Guides are available from VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=5b04f318-804f-4dc0-9463-c3fb9a3fe998>

Assessment Requirements for MSS015028 Conduct a sustainable water use audit

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- conducted a water use audit and prepared audit report for at least 1 organisation, or part or all of a value chain.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- water sources
- typical water usage on a site
- specific water usages within production or operational processes undertaken by the organisation
- water quality categorisation
- 'grades' of water and characteristics and typical applications for water of different qualities
- strategies and methodologies for determining water quality
- strategies and sources of advice for determining impact of changes to water usage or quality with products or processes.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions, contingencies, facilities, equipment and resources.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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