



Australian Government

NWPNET010 Develop and manage an alternate water supply plan

Release: 1

NWPNET010 Develop and manage an alternate water supply plan

Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

Application

This unit involves the skills and knowledge required to develop and manage an alternate water supply plan.

It includes identifying and harvesting alternate water supply sources, analysing data and implementing the developed plan. It also includes analysing system performance, liaising with stakeholders and reviewing and refining the plan.

This unit applies to leaders with responsibility for the management of alternate water supply processes. Those undertaking this units would work autonomously, leading staff, while performing sophisticated tasks in a range of familiar contexts.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

Networks

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for alternate water supplies

PERFORMANCE CRITERIA

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

1.1 Identify, interpret and synthesise alternate water specifications according to regulatory requirements and workplace procedures

- 1.2 Identify alternate sources of water as an opportunity to contribute to environmental sustainability
 - 1.3 Identify and analyse legislation, workplace procedures, environmental requirements and system constraints impacting water obtained from alternate supply
 - 1.4 Identify hazards, assess risks and implement control measures according to workplace procedures
 - 1.5 Estimate the value of implementing alternate water sources and determine financial viability
 - 1.6 Identify stakeholder requirements impacting alternate water source
 - 1.7 Confirm performance measures for the alternate water supply plan
- 2 Develop an alternate water plan**
 - 2.1 Apply system specification requirements to the alternate water supply plan according to relevant legislation, industry standards and workplace procedures
 - 2.2 Assess public health, environmental and community factors impacting alternate water supply
 - 2.3 Analyse performance data and incorporate into plan development
 - 2.4 Design and implement monitoring and testing programs according to the alternate water supply plan
 - 2.5 Develop and document a plan for harvesting alternate water
- 3 Implement alternate water supply plan**
 - 3.1 Provide advice and guidance to plan stakeholders according to regulatory requirements and workplace procedures
 - 3.2 Manage resources to achieve the objectives of the alternate water supply plan
 - 3.3 Operate the system according to the alternate water supply plan and regulatory requirements
 - 3.4 Manage implementation of the changes identified in the alternate water supply plan
- 4 Monitor and evaluate alternate water supply**
 - 4.1 Evaluate collection of alternate water supplies by identifying, investigating and reporting deviations from

plan		agreed service levels
	4.2	Monitor information impacting planning processes according to workplace procedures
	4.3	Plan and oversee system maintenance according to the alternate water supply plan
	4.4	Analyse and interpret monitoring and testing results and report according to regulatory requirements and workplace procedures
	4.5	Investigate breaches of usage provisions and report results and recommendations according to regulatory requirements and workplace procedures
	4.6	Identify and evaluate system changes to the alternate water supply plan as a result of changes in regulatory and stakeholder requirements
5 Review and refine plan	5.1	Review objectives of alternate water supply and implementation plans
	5.2	Make recommendations for changes to plan objective and operational and maintenance procedures
	5.3	Modify and implement the alternate water supply plan, incorporating accepted recommendations

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit Mapping Information

This is a new unit. No equivalent unit.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

Assessment Requirements for NWPNET010 Develop and manage an alternate water supply plan

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and includes:

- advising and guiding plan stakeholders in compliance with regulatory requirements
- analysing measuring and testing data relative to treatment plant operations
- applying alternate water supply system specification requirements
- assessing environmental and public health factors impacting alternate water supply
- determining financial viability of alternate water sources
- estimating the value of implementing sources of alternate water
- identifying and interpreting relevant water recycling legislation, industry standards and workplace procedures
- identifying, interpreting and synthesising information for developing and managing an alternate water supply plan including:
 - historical data
 - relevant legislation, industry standards and workplace policies
 - reviewing plan objectives
 - stakeholder requirements
- managing resources for implementation of alternate water supply
- operating the alternate water system ensuring it complies with the supply plan
- preparing reports and recommendations for changes to the objectives of the alternate water supply plan and its implementation

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- analytical skills for assessing data and system performance
- environmental impacts affecting alternate water supply
- performance measures for alternate water supply
- measuring and testing procedures

- relevant legislation and industry standards
- relevant workplace documentation
- relevant workplace policies and procedures associated with developing an alternative water supply plan
- stakeholder requirements

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in suitable workplace operational situations. Where this is not appropriate, assessment must occur in suitable simulated workplace operational situations reflecting actual workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment currently used in industry
- applicable relevant documentation including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

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