



Australian Government

NWPTRT003 Develop and manage a wastewater treatment plan

Release: 1

NWPTRT003 Develop and manage a wastewater treatment 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 a wastewater treatment plan.

It includes planning and preparing for wastewater treatment and developing a management plan consistent with regulatory requirements. 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 the wastewater treatment processes. Those undertaking this unit 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

Treatment

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for wastewater treatment

PERFORMANCE CRITERIA

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

1.1 Identify, interpret and synthesise historic wastewater treatment information relevant to the management process

- 1.2 Interpret wastewater quality and quantity requirements according to relevant legislation and workplace procedures
 - 1.3 Identify and analyse legislation, workplace procedures, environmental requirements and system constraints impacting wastewater treatment
 - 1.4 Identify hazards, assess risks and implement control measures according to workplace procedures
 - 1.5 Identify and analyse stakeholder requirements impacting wastewater discharge environments
 - 1.6 Confirm performance measures for the wastewater treatment plan
 - 1.7 Identify and define available resources against wastewater treatment specifications
 - 1.8 Determine responsibilities and timelines for implementation activities
- 2 Develop wastewater treatment plan**
 - 2.1 Apply system specification requirements to wastewater treatment plan according to relevant legislation, industry standards and workplace procedures
 - 2.2 Assess public health, environmental and community factors impacting wastewater treatment
 - 2.3 Analyse performance data and incorporate into plan development
 - 2.4 Design and implement monitoring and testing programs according to the wastewater treatment plan
 - 2.5 Develop and document a plan for wastewater treatment
- 3 Implement wastewater treatment plan**
 - 3.1 Provide advice and guidance to plan users and stakeholders according to regulatory requirements and workplace procedures
 - 3.2 Manage resources to achieve the objectives of the wastewater treatment plan
 - 3.3 Operate the system according to the wastewater treatment plan and regulatory requirements
 - 3.4 Manage implementation of the changes identified to the

		wastewater treatment plan
4 Monitor and evaluate wastewater treatment	4.1	Evaluate collection of treated wastewater from customers by identifying, investigating and reporting deviations from agreed service levels
	4.2	Monitor information impacting planning processes according to workplace procedures
	4.3	Plan and oversee system maintenance according to the wastewater treatment 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 wastewater treatment plan as a result of changes in regulatory and stakeholder requirements
	4.7	Modify and implement the wastewater treatment plan, incorporating accepted recommendations
5 Review and refine plan	5.1	Review objectives of wastewater treatment and implementation plans
	5.2	Make recommendations for changes to plan objective and operational and maintenance procedures
	5.3	Implement outcomes from audits and internal reviews

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 NWPTRT003 Develop and manage a wastewater treatment 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 users in compliance with regulatory requirements
- analysing measuring and testing data relative to treatment plant operations
- assessing wastewater environmental factors
- developing a wastewater treatment plan that addresses the organisation's objectives and requirements
- identifying and interpreting relevant water recycling legislation, industry standards and workplace procedures
- identifying, interpreting and synthesising information for developing and managing a wastewater treatment plan including:
 - historical data
 - industry standards
 - maintenance activities and costs
 - plan objectives
 - relevant legislation
 - stakeholder requirements
 - workplace policies
- preparing reports and recommendations for changes to the objectives of the wastewater treatment 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:

- analysis of wastewater treatment plant processes
- customer and stakeholder requirements
- measuring and testing procedures
- relevant legislation and industry standards
- environmental impacts
- relevant workplace documentation

- relevant workplace policies and procedures associated with developing a wastewater treatment plan

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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