



Australian Government

NWPNET009 Develop and manage a wastewater collection plan

Release: 1

NWPNET009 Develop and manage a wastewater collection 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 collection plan.

It includes planning, developing, implementing, monitoring and evaluating the operation and maintenance of wastewater systems. It also includes reporting on implementation of the plan including system performance analysis, stakeholder and customer liaison.

This unit applies to leaders with responsibility for implementing wastewater collection management plans. 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

Networks

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan for wastewater collection

PERFORMANCE CRITERIA

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

- 1.1** Identify, interpret and synthesise historic wastewater collection system information relevant to the management process

- 1.2 Identify and analyse legislation, workplace procedures environmental requirements and system constraints impacting wastewater collection
 - 1.3 Identify and interpret wastewater collection and transport system specifications including regulatory requirements, industry standards and workplace procedures
 - 1.4 Identify hazards, assess risks and implement control measures according to workplace procedures
 - 1.5 Identify and analyse stakeholder requirements impacting wastewater collection
 - 1.6 Confirm performance measures for the wastewater collection plan
 - 1.7 Identify and define available resources against wastewater specifications
 - 1.8 Determine responsibilities and timelines for implementation activities
- 2 Develop wastewater collection plan**
 - 2.1 Apply system specification requirements for waste water collection planning according to relevant legislation, industry standards and workplace procedures
 - 2.2 Assess public health, environmental and community factors impacting the wastewater collection system
 - 2.3 Analyse performance data and incorporate into plan development
 - 2.4 Design and implement monitoring and testing programs according to the objectives of the wastewater collection plan
 - 2.5 Develop and document a plan for managing wastewater collection
- 3 Implement wastewater collection 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 collection plan
 - 3.3 Operate the system according to the wastewater

- collection plan and regulatory requirements
- 4 Monitor and evaluate wastewater collection plan**
- 4.1** Evaluate collection of wastewater from customers by identifying, investigating and reporting deviations from agreed service levels
 - 4.2** Plan and oversee system maintenance according to the wastewater collection plan
 - 4.3** Analyse and interpret monitoring and testing results and report according to regulatory requirements and workplace procedures
 - 4.4** Investigate current and identify potential problems and report results and recommendations according to regulatory requirements and workplace procedures
 - 4.5** Evaluate maintenance budgets, activity programs and output target measures and identify, investigate and report deviations from target
 - 4.6** Identify and record links between operational problems and maintenance activities
 - 4.7** Investigate breaches of usage provisions and report results and recommendations according to regulatory requirements and workplace procedures
 - 4.8** Identify and evaluate system changes to the wastewater collection plan according to changes in regulatory and stakeholder requirements
 - 4.9** Modify and implement the wastewater collection plan, incorporating accepted recommendations
- 5 Review and refine plan**
- 5.1** Review objectives of wastewater collection and implementation plans
 - 5.2** Make recommendations for changes to plan objectives 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 NWPNET009 Develop and manage a wastewater collection plan

Modification History

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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
- assessing environmental impacts
- assessing impacts on public health
- confirming performance measures
- designing, implementing, analysing and interpreting monitoring and testing activities
- identifying and investigating problems
- identifying and recording links between operational problems and maintenance activities
- identifying hazards, assessing risks and implementing control measures
- identifying, interpreting and synthesising information for implementing activities for the wastewater collection plan including:
 - analysing historical and performance data
 - developing an implementation plan
 - relevant legislation, industry standards and workplace policies
 - results of wastewater collection system monitoring and testing
 - reviewing plan objectives
 - stakeholder requirements
- managing maintenance budgets and reporting deviations
- managing resources to achieve objectives of the wastewater collection plan
- performing investigations and reporting deviations
- planning water treatment operations effectively
- preparing reports and recommendations for future action
- using analytical skills

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:

- budgeting techniques

- constraints impacting wastewater collection
- customer and stakeholder expectations and requirements
- investigation techniques
- measure and test procedures
- relevant legislation associated with wastewater collection including:
 - environmental
 - public health issues
 - work health and safety (WHS)/occupational health and safety (OHS)
- relevant workplace policies and procedures
- requirements and techniques for management plans
- risk management principles
- mathematical and scientific techniques for interpreting test results
- user expectations and 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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