



Australian Government

NWPNET054 Test and commission wastewater collection systems

Release: 1

NWPNET054 Test and commission wastewater collection systems

Modification History

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

Application

It includes planning and implementing testing and commissioning of wastewater collection systems. It also includes interpreting technical information, identifying and assessing hazards and performing testing procedures.

This unit applies to those working as field staff and operators with specific responsibility for commissioning wastewater collection systems, post-installation or repair, and for ensuring that the functioning of the system complies with relevant specifications and organisational requirements. Those undertaking this unit would work under appropriate supervision, while performing routine tasks in a familiar context, and ensuring minimum damage to the environment.

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.

PERFORMANCE CRITERIA

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

- | | |
|--|---|
| 1 Prepare for testing and commissioning | 1.1 Identify and interpret the system operation requirements |
| | 1.2 Confirm and schedule testing and commissioning tasks |
| | 1.3 Identify and assess potential hazards and take required preventative measures |
| | 1.4 Select and use tools and equipment according to manufacturer instructions |
| | 1.5 Check testing equipment for accuracy, correct malfunctions and report to relevant personnel |
| 2 Conduct pipeline and access structure testing | 2.1 Select and install tensioning and measuring equipment according to manufacturer instructions |
| | 2.2 Select and fit gauges of the correct range to test equipment according to workplace procedures |
| | 2.3 Locate and report failed assets for repair and reschedule for further testing |
| 3 Commission the wastewater collection system | 3.1 Ensure the system is operational and conduct post commissioning checks according to workplace procedures |
| | 3.2 Restore the worksite according to workplace procedures |
| | 3.3 Check, maintain and store equipment tools and materials according to manufacturer instructions |
| 4 Record and report results | 4.1 Maintain workplace documents, calibration records or certificates |
| | 4.2 Collect and store testing and compliance results according to workplace procedures |

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.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPNET045 Test and commission wastewater collection systems.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for NWPNET054 Test and commission wastewater collection systems

Modification History

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

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:

- applying testing procedures
- assessing risks and hazards and taking appropriate preventive measures
- completing relevant documentation
- identifying and reporting faulty system components
- identifying, reporting and recording hazards and risks
- interpreting testing requirements of the system from relevant documentation
- maintaining and checking records and documents
- making the system operational and conducting post-commissioning checks
- monitoring work processes and ensuring safe work practices
- ensuring compliance with standards, regulations and policies
- planning and implementing the testing and commissioning of wastewater collection systems
- preparing and checking testing equipment
- restoring the worksite
- using testing equipment.

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:

- characteristics of pipes, materials and fittings
- layout and construction of wastewater collection systems
- manufacture instructions
- overview of wastewater systems
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards of test procedures
- testing procedures for wastewater systems.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate 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, equipment and personal protective equipment currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

Links

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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

Companion Volume implementation guides are found in VETNet -

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