



Australian Government

NWPNET027 Monitor and control vacuum sewer systems

Release: 1

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Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.

Application

This unit describes the skills required to monitor and maintain the operation of wastewater vacuum collection systems and to measure and report on the operation of the system. The ability to interpret technical documentation and identify and investigate operational problems is essential to performance.

This unit applies to those working as field and operational staff with responsibility for ensuring that the vacuum sewer system performs effectively.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would work independently or in a team while performing routine tasks in range of familiar contexts, ensuring minimum damage to the environment.

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

Competency Field

Networks

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.
1. Plan and prepare for work	1.1 Determine work requirements for monitoring vacuum sewer systems from plans, specifications and instructions. 1.2 Select and check equipment, documentation and tools to meet safety and work requirements of task and site. 1.3 Inform affected customers and stakeholders of the task to be

	carried out. 1.4 Obtain all permits necessary to complete the work. 1.5 Select, fit and use personal protective equipment. 1.6 Visit and investigate the site.
2. Maintain vacuum pump station	2.1 Conducting housekeeping duties for the vacuum station building. 2.2 Check and monitor vacuum pumps, wastewater pump out and performance of odour control systems to ensure the specifications are met and make adjustments. 2.3 Complete pump station workplace records for all pumps and instruments.
3. Investigate faults in vacuum sewer system	3.1 Identify and record links between operational problems and maintenance activities. 3.2 Investigate and control the operational status of system components with reference to manufacturer and supplier specifications. 3.3 Ensure system is returned to operational mode.
4. Compile process records	4.1 Compile reports from system data. 4.2 Record the condition of equipment and report faults and anticipated problems.

Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Learning					Reading					Writing					Oral communication					Numeracy				

Performance variables:

1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Support					Context					Text complexity					Task complexity				

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

Unit Mapping Information

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>

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Assessment Requirements for NWPNET027 Monitor and control vacuum sewer systems

Modification History

Release	Comments
1	These Assessment Requirements were released in NWP Water Training Package release 1.0 and meet the Standards for Training Packages.

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- responding to and correcting operational problems
- producing reports and logs
- using safety equipment and personal protective equipment
- identifying and investigating operational problems
- collecting and basic analysing of data
- interpreting plans, charts, service search diagrams and instructions and specifications
- interpreting policies, standard operating procedures and standards
- communicating with colleagues and customers
- operating control systems
- identifying control system faults

Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- coordination and control of processes
- collection system layout
- system processes
- environmental aspects of vacuum systems
- disinfection and chemical use during maintenance operations
- safety procedures
- lock out procedures for mechanical and electrical installations
- policies, standard operating procedures and legislation
- relevant utilities and service bodies

- communication systems
- risk factors and potential hazards involved with wastewater vacuum systems
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of wastewater vacuum systems
- pipes and fittings
- pumping and valving systems
- control systems
- vacuum station odour control methods

Assessment Conditions

Competency should be assessed in an actual workplace or in a simulated environment, with access to equipment and infrastructure appropriate to the outcome. Competency should be demonstrated over time to ensure the candidate is assessed across a variety of situations.

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

Links

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