



Australian Government

NWPNET048 Monitor and control vacuum sewer systems

Release: 1

NWPNET048 Monitor and control vacuum sewer systems

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 monitor and control vacuum sewer systems.

It includes maintaining the operation of wastewater vacuum collection systems and measuring and reporting on the operation of the system. It also includes the ability to interpret technical documentation and identify and investigate operational problems.

This unit applies to those working as field and operational staff with responsibility for ensuring vacuum sewer systems perform effectively. Those undertaking this unit would work under appropriate supervision performing routine tasks in a range of familiar contexts 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.

1 Prepare for work

PERFORMANCE CRITERIA

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

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 worksite
	1.3	Communicate with stakeholders of the work to be performed
	1.4	Obtain permits required to complete work according to workplace procedures
	1.5	Select, fit and use personal protective equipment (PPE)
2	Maintain vacuum pump station	
	2.1	Maintain vacuum station building according to workplace procedures
	2.2	Check and monitor vacuum pumps, wastewater pump out and performance of odour control systems to ensure specifications are met and make necessary adjustments
	2.3	Complete pump station workplace records for all pumps and instruments according to workplace procedures
3	Investigate faults in vacuum sewer system	
	3.1	Identify and record links between operational problems and maintenance activities and report to relevant personnel
	3.2	Investigate and control operational status of system components according to manufacturer and supplier specifications
	3.3	Ensure system is returned to operational mode according to workplace procedures
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

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 NWPNET027 Monitor and control vacuum sewer systems

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 NWPNET048 Monitor and control vacuum sewer systems

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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:

- collecting and analysing data
- communicating with stakeholders
- compiling reports
- identifying and investigating operational problems
- identifying system faults
- interpreting plans, charts, service search diagrams and instructions and specifications
- interpreting policies, workplace procedures and standards
- operating control systems
- responding to and correcting operational problems
- using safety equipment and personal protective equipment (PPE)

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:

- control systems
- coordination and control of processes
- policies, standard operating procedures and legislation
- pump fittings
- pumping and valving systems
- risk factors and potential hazards involved with wastewater including:
 - effects of weather and conditions on operation of wastewater vacuum systems
 - environmental aspects of vacuum systems
- safety procedures
- system processes
- vacuum sewer collection system layout
- vacuum station odour control methods

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.

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