



Australian Government

NWPNET058 Optimise network systems

Release: 1

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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 optimise network systems.

It includes coordinating, monitoring and optimising system performance and maintenance planning in drinking water distribution systems.

This unit applies to those working as staff members with a specific responsibility for ensuring drinking water systems comply with organisational and statutory requirements. Those undertaking this unit would work autonomously, usually with supervisory responsibilities, while performing complex tasks in a range of 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 Evaluate drinking water distribution system performance

PERFORMANCE CRITERIA

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

1.1 Review existing distribution system performance data against relevant organisational and legislative requirements

- 1.2 Identify the impact of the distribution system on water quality
 - 1.3 Identify and coordinate any sampling and testing required for valid evaluation of current system performance
- 2 **Investigate water distribution system issues**
 - 2.1 Review existing system fault reports and relevant water quality information
 - 2.2 Identify and record links between operational problems and maintenance activities
 - 2.3 Investigate the operational status of system components and equipment with reference to manufacturer and supplier specifications
 - 2.4 Carry out distribution system configuration investigations to identify potential deficiencies
- 3 **Plan optimisation of drinking water distribution system**
 - 3.1 Identify potential hazards to the distribution system and propose appropriate preventative measures
 - 3.2 Develop and validate a system optimisation plan 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 supersedes and is equivalent to NWPNET005 Optimise network systems.

Links

Companion Volume implementation guides are found in VETNet -

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