



Australian Government

NWPNET030 Identify and respond to water quality problems

Release: 1

NWPNET030 Identify and respond to water quality problems

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 identify and respond to water quality problems.

It includes monitoring, identifying and resolving water quality problems in water distribution systems. It also includes identifying and investigating operational problems, collecting samples, analysing technical information, communicating effectively with stakeholders and interpreting and applying incident management procedures.

This unit applies to field and operational staff with a specific responsibility for monitoring water quality and responding to issues affecting water quality in distribution systems. 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.

1 Identify and locate water

PERFORMANCE CRITERIA

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

1.1 Conduct monitoring of water quality according to

quality problems		workplace procedures	
	1.2	Investigate water quality problems and causes	
	1.3	Collect, analyse and report system data	
	1.4	Collect, label and record samples according to workplace procedures	
	1.5	Select, fit and use required safety equipment according to workplace procedures	
	1.6	Identify and communicate with customers and stakeholders according to workplace procedures	
2	Respond to water quality problems	2.1	Analyse incidents and apply incident management procedures to resolve water quality problems
		2.2	Notify customers and stakeholders of resolution to identified problems
		2.3	Monitor and measure recovery of the system according to workplace procedures
		2.4	Investigate and review results and take appropriate action according to workplace procedures
3	Complete documentation	3.1	Report process faults to relevant stakeholders according to workplace procedures
		3.2	Document reports from system data 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 NWPNET013 Identify and respond to water problems.

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 NWPNET030 Identify and respond to water quality problems

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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, analysing and reporting system data
- collecting and recording water quality data
- collecting, labelling and recording samples
- completing incident reports and other relevant documentation
- identifying and communicating with customers and stakeholders
- identifying and investigating water quality problems and causes
- identifying and reporting process faults
- producing reports
- using safety equipment and personal protective 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:

- causes of water quality deterioration
- communication techniques
- customer and stakeholder requirements
- environmental impact assessments
- incident management procedures
- relevant legislation, regulations and workplace procedures
- risk management principles
- sampling and testing procedures
- water quality including:
 - characteristics
 - issues
 - potential hazards
 - primary agencies
 - risk factors

- specifications
- water system standards including:
 - environmental aspects and management procedures
 - infrastructure
 - layout
 - operation
 - pipes and fittings
 - processes
 - pumping and valving 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.

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