



Australian Government

NWPNET013 Identify and respond to water problems

Release: 1

NWPNET013 Identify and respond to water problems

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP317B Control water quality in distribution systems. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes

Application

This unit of competency describes the skills required to monitor, identify and resolve water quality problems in water distribution systems. The ability to identify and investigate operational problems, collect samples and analyse technical information, communicate effectively with stakeholders and to interpret and apply incident management procedures is essential to performance.

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

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, particularly those related to WHS.

Those undertaking this unit would work under indirect supervision, while performing routine tasks, in a familiar context, 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. Identify and locate water quality problems	1.1 Conduct monitoring of water quality. 1.2 Investigate water quality problems and their cause. 1.3 Collect, analyse and report system data. 1.4 Collect, label and record samples. 1.5 Select, fit and use required safety equipment
2. Respond to water quality problems	2.1 Analyse incidents and apply incident management procedures to resolve water quality problems. 2.2 Notify stakeholders of policies, procedures and plans. 2.3 Monitor the recovery of the system and measure recovery. 2.4 Investigate and review results and take action.
3. Complete documentation	3.1 Report process faults. 3.2 Compile reports from system data.

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 NA					Reading					Writing					Oral communication					Numeracy NA				

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

This unit supersedes and is equivalent to NWP317B Control water quality in distribution 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 NWPNET013 Identify and respond to water problems

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. • Assessment Requirements created drawing upon specified assessment information from superseded unit

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.

- identifying and investigating water quality problems
- accessing, interpreting and applying relevant organisational and legislative requirements
- undertaking sampling and testing procedures
- producing reports and logs
- using safety equipment and personal protective equipment
- investigating types of contamination
- interpreting plans, service diagrams, topographic plans, charts and specifications
- monitoring inflows
- identifying control system faults
- monitoring characteristics of water quality
- collecting samples
- collecting and recording water quality data
- completing incident reports and other relevant documentation

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.

- relevant legislative requirements and responsibilities
- relevant procedures
- established environmental management procedures

- environmental impact assessment
- primary agencies involved in drinking water quality management
- water quality standards and issues
- causes of water quality deterioration
- system hydraulics
- incident management processes
- system processes, operation, layout
- water quality specifications
- environmental aspects of water systems and infrastructure
- relevant utilities and service bodies
- communication systems
- risk management principles
- risk factors and potential hazards involved in water systems
- equipment operation, capacity and limitations
- pipes and fittings
- pumping and valving systems control systems
- forces including gravitational, valve operation, hydraulic and pumps

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.

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