



Australian Government

NWPNET025 Coordinate and manage maintenance and repair of network assets

Release: 1

NWPNET025 Coordinate and manage maintenance and repair of network assets

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 NWP303A Monitor and control maintenance of water and wastewater system assets. • 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 • PC 3.1 removed

Application

This unit of competency describes the skills required to inspect asset condition, to plan for asset repairs and to monitor and report on maintenance and repair work completion. The ability to identify faults, gather data, interpret technical information, assess risks and produce technical work plans and reports are essential to performance.

This unit applies to those working as field staff with responsibility for ensuring that water collection, distribution, storage and transfer assets are regularly monitored and for conducting scheduled maintenance and repair work on assets.

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 under indirect supervision, in a familiar context, while performing routine tasks 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. Analyse asset condition and determine remedial action	1.1 Schedule routine inspections of assets and monitor fault reporting. 1.2 Collect and analyse data on asset and infrastructure condition. 1.3 Determine and cost asset maintenance and repair methods. 1.4 Select, fit and use equipment including personal protective equipment.
2. Plan and prepare for asset repair	2.1 Schedule and plan work site investigations and repair activities. 2.2 Develop repair plans and procedures and communicate to all stakeholders. 2.3 Assess and record environmental and WHS risks and specify appropriate preventative measures. 2.4 Select equipment, materials, prefabricated components and fittings and make available for use on site.
3. Monitor and report maintenance activities	3.1 Monitor repair and maintenance progress and keep records. 3.2 Inspect, confirm and report completion of repair and maintenance.
4. Complete records and reports	4.1 Complete workplace records and reports. 4.2 Make recommendations which contribute to the continuous improvement and quality of the organisation's systems.

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				

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 NWP303A Monitor and control maintenance of water and wastewater system assets.

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 NWPNET025 Coordinate and manage maintenance and repair of network assets

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 solving operational problems
- undertaking calculations
- determining work requirements
- monitoring system operations and processes
- producing reports and logs
- using safety equipment and personal protective equipment
- interpreting plans and instructions
- interpreting the organisation's policies, standard operating procedures and standards for monitoring and maintenance of assets
- calculating water pressures and flows
- conducting operational and maintenance inspections
- monitoring fault reports
- collecting and analysing operational and mechanical data
- identifying and assessing work methods effectiveness
- planning investigations and repairs
- developing repair procedures
- assessing risks and specifying preventive methods
- selecting equipment, materials, prefabricated components and fittings

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.

- environmental aspects of water distribution systems and infrastructure
- WHS procedures
- lock out procedures for mechanical and electrical installations
- cleaning and protection of assets
- policies and standard operating procedures for monitoring and maintenance of assets
- relevant utilities and service bodies
- communication systems
- environment, landscape and ground structure of work area
- risk factors and potential hazards involved with water pressures and flows
- equipment operation, capacity and limitations
- effects of weather and conditions on operation of supply infrastructure
- system pipes and fittings
- pumping and valving systems
- system layout, process, operation
- gravity systems
- control systems

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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