



Australian Government

NWPNET055 Coordinate and manage maintenance and repair of network assets

Release: 1

NWPNET055 Coordinate and manage maintenance and repair of network assets

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 coordinate and manage maintenance and repair of network assets.

It includes inspecting asset condition, planning for asset repairs and monitoring and reporting on maintenance and repair work completion. It also includes identifying faults, gathering data, interpreting technical information, assessing risks and producing technical work plans and reports.

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. 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

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

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| 1 Analyse asset condition and determine remedial action | 1.1 Schedule routine inspections of assets and monitor fault reporting according to workplace procedures |
| | 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 and materials including personal protective equipment |
| 2 Plan and prepare for asset repair | 2.1 Schedule and plan worksite investigations and repair activities |
| | 2.2 Develop repair plans and procedures and communicate to relevant stakeholders |
| | 2.3 Assess and record environmental and work, health and safety (WHS) risks and specify control measures |
| | 2.4 Select equipment, materials, prefabricated components and fittings and make available for use on worksite |
| 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 to relevant personnel according to workplace procedures |
| 4 Complete records and reports | 4.1 Complete workplace records and reports according to workplace procedures |
| | 4.2 Make recommendations which contribute to the continuous improvement and quality of the organisation's systems |

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 NWPNET025 Coordinate and manage maintenance and repair of network assets.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for NWPNET055 Coordinate and manage maintenance and repair of network assets

Modification History

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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:

- assessing risks and specifying control methods
- collecting and analysing operational data
- conducting operational and maintenance inspections
- determining work requirements
- developing plans and instructions
- developing repair procedures
- identifying and assessing work methods effectiveness and efficiencies
- identifying improvement and solving operational problems
- interpreting organisational policies, procedures and standards for monitoring and maintenance of assets
- monitoring fault reports
- monitoring system operations and processes
- planning investigations and repairs
- producing reports
- selecting equipment, materials, prefabricated components and fittings
- 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 include knowledge of:

- cleaning and protection of assets
- communication methods and systems
- control systems
- effects of weather and conditions on operation of supply infrastructure
- environment, landscape and ground structure of work area
- environmental aspects of distribution systems and infrastructure
- equipment operation, capacity and limitations
- lock out procedures for mechanical, electrical and hydraulic installations

- policies and standard operating procedures for monitoring and maintenance of assets
- relevant legislation
- relevant utilities and service bodies
- risk factors and potential hazards involved with water pressures and flows
- system layout, process, operation
- work, health and safety (WHS) procedures
- workplace records and reports

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.

Links

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