



Australian Government

NWPNET036 Perform leak detection

Release: 1

NWPNET036 Perform leak detection

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 perform leak detection.

It includes planning leak detection activities and locating, identifying and reporting leaks in pressure mains water distribution networks.

This unit applies to those working as field staff with a specific responsibility for planning and implementing leak detection activities. 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 Prepare for leak detection

PERFORMANCE CRITERIA

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

- 1.1** Determine worksite boundaries and leak detection requirements from plans, specifications and instructions
- 1.2** Conduct risk assessment for environmental and safety

		factors including personal and protective equipment to ensure it is safe to commence work
	1.3	Select and check leak detection equipment according to workplace procedures
	1.4	Determine work requirements for the maintenance and repair of assets from work drawings, plans, specifications and instructions
	1.5	Identify, notify and communicate with customers according to workplace procedures
2	Operate leak detection equipment	
	2.1	Determine and mark worksite boundaries from plans and service search diagrams
	2.2	Operate leak detection equipment according to manufacturer instructions
	2.3	Mark the location of leaks according to workplace procedures
	2.4	Locate leaks and arrange repair according to testing outcomes, relevant legislation and workplace procedures
3	Review, report and record work	
	3.1	Restore worksite according to environmental and workplace procedures
	3.2	Store equipment, tools and materials according to manufacturer and workplace procedures
	3.3	Complete and process workplace records 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 NWPNET015 Perform leak detection.

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 NWPNET036 Perform leak detection

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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:

- analysing data according to workplace procedures
- completing documentation
- identifying safety risks and hazards
- interpreting plans, specifications, policies and procedures
- locating and marking leaks and arranging repair activities
- locating, identifying and reporting leaks in water distribution networks
- operating leak detection equipment
- preparing for leak detection activities
- providing maintenance records for 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:

- calculations and measurements
- landscape and ground structure of work area
- leak detection equipment
- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies
- risk assessment and the identification of potential hazards including:
 - effects of weather and conditions on site or plant
 - environmental aspects
 - equipment operation, capacity and limitations
 - identification, repair and lock out procedures
- system hydraulics
- system layout
- work drawings, plans and specifications

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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