



Australian Government

NWPNET047 Install, maintain and repair hydrants

Release: 1

NWPNET047 Install, maintain and repair hydrants

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 install, maintain and repair hydrants.

It includes conducting a risk assessment, isolating and testing hydrant repairs. It also includes ensuring replacement hydrant is in working order and worksite is restored.

This unit applies to those working as field staff with specific responsibility for ensuring the work related to hydrants is completed in compliance with all relevant organisational and statutory requirements. Those undertaking this unit work independently under appropriate supervision while performing routine tasks, and ensuring minimum damage to the environment, in a familiar context.

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 work

PERFORMANCE CRITERIA

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

1.1 Identify utility assets or services by contacting relevant authorities

- 1.2 Present identification and notify customers of works and potential supply interruptions
 - 1.3 Conduct risk assessment of worksite and work and select appropriate personal protective equipment according to workplace procedures
 - 1.4 Conduct earth leakage risk assessment according to workplace procedures
 - 1.5 Determine work requirements from specifications and instructions
 - 1.6 Test hydrant to determine if replacement or repair of hydrant is required and record results
 - 1.7 Identify, check and prepare materials, equipment and resources required for work
 - 1.8 Select and install appropriate earth leakage equipment according to workplace procedures
- 2 **Conduct installation, maintenance and refurbishment**
 - 2.1 Implement isolation of water system according to workplace procedures
 - 2.2 Implement controls in relation to safety, environment, and isolating the worksite according to workplace procedures
 - 2.3 Excavate worksite to gain access to hydrant for replacement or repair according to workplace procedures
 - 2.4 Install new hydrant or complete repairs to existing hydrant according to workplace procedures
 - 2.5 Remove earth leakage equipment according to workplace procedures
- 3 **Finalise work**
 - 3.1 Remove isolations according to workplace procedures
 - 3.2 Retest hydrant and record results
 - 3.3 Check, maintain and store equipment, tools and materials according to workplace procedures
 - 3.4 Restore worksite, complete and submit workplace records

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 NWPNET026 Install, maintain and repair hydrants.

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 NWPNET047 Install, maintain and repair hydrants

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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:

- applying excavation techniques including:
 - locating cables
 - potholing
- charging and discharging water mains before and after isolation
- communicating with customers
- complying with water off notices, flow control and shut plans
- conducting risk assessments on worksite for operational, electrical and environmental safety factors
- contacting relevant authorities for the correct location of utilities or services
- determining location, size, utilities and services from plans
- implementing isolations
- installing or maintaining hydrants and associated components
- maintaining and storing tools and equipment
- operating valves for isolation
- planning work
- reading and interpreting plans and drawings, and relevant standards and instructions
- restoring worksite
- selecting personal protective equipment
- using tools and specific water 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:

- electrical earth leakage safety procedures
- equipment operation, capacity, and limitations
- isolation methods and procedures
- operating within permit to works and shut plans
- relevant authorities to contact for the correct location of utilities or services including Dial

Before You Dig

- relevant legislation, policies and procedures
- tools and equipment
- worksite restoration techniques

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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