



**Australian Government**

# **NWPNET026 Install, maintain and repair hydrants**

**Release: 1**

# NWPNET026 Install, maintain and repair hydrants

## Modification History

| Release | Comments                                                                                                        |
|---------|-----------------------------------------------------------------------------------------------------------------|
| 1       | This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. |

## Application

This unit describes the skills required to conduct the installation, maintenance and repair of hydrants.

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.

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 work independently under indirect supervision while performing routine tasks, ensuring minimum damage to the environment, in a familiar context.

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.                                                                                                                                                                                             |
| <b>1. Plan and prepare for work</b>      | 1.1 Obtain permits, isolation plans and contact Dial Before You Dig.<br>1.2 Identify yourself to customers and ensure customers have been notified of works and potential supply interruptions.<br>1.3 Conduct risk assessment of worksite and work.<br>1.4 Determine work requirements from specifications or instructions.<br>1.5 Test hydrant to determine the work required and record results. |

|                                                               |                                                                                                                                                                                                                                      |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               | 1.6 Organise traffic management personnel.<br>1.7 Check all relevant licences from all personnel.<br>1.8 Identify, check and prepare materials, equipment and resources required.                                                    |
| <b>2. Conduct installation, maintenance and refurbishment</b> | 2.1 Implement isolations.<br>2.2 Implement controls in relation to safety, environment, and barricading the work site.<br>2.3 Excavate and select appropriate equipment.<br>2.4 Complete maintenance repairs.                        |
| <b>3. Finalise work</b>                                       | 3.1 Remove isolations.<br>3.2 Retest hydrant and record results.<br>3.3 Maintain and store tools as per workplace procedures and manufacturer specifications.<br>3.4 Restore the worksite and complete and submit workplace records. |

## 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 |   |   |   |   | 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

No equivalent unit.

## 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 NWPNET026 Install, maintain and repair hydrants

## 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. |

## 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.

- reading and interpreting plans and drawings, and relevant standards and instructions
- using tools and specific water equipment including valve keys and standpipes
- selecting Personal Protection Equipment
- maintaining tools
- communicating with customers
- determining location, size, utilities and services from plans
- applying excavation techniques including potholing and cable location
- organising traffic management and concrete cutters
- conducting risk assessments on site for safety, environmental factors
- restoring work site
- implementing isolations
- operating valves
- planning work
- complying with water off notices, flow control and shut plans, and permits to work
- charging and discharging water mains
- restoring site

## 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.

- isolations
- tools and equipment, including quick cuts
- traffic management

- standpipes
- operating within permit to works and shut plans
- charging and discharging mains appropriately
- site restoration
- relevant legislation and standards
- equipment operation, capacity, and limitations
- how to escalate issues, barriers and concerns

## 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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