



**Australian Government**

# **NWPNET053 Test and commission water distribution systems**

**Release: 1**

# NWPNET053 Test and commission water distribution systems

## Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

## Application

It includes planning and implementing the testing and commissioning of water distribution systems. It includes interpreting technical information, identifying and assessing hazards and performing technical testing procedures.

This unit applies to those working as field staff and operators with specific responsibility for commissioning water distribution systems, post-installation or repair, and for ensuring that the functioning of the system complies with relevant specifications and organisational requirements. 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 testing and

### PERFORMANCE CRITERIA

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

#### 1.1 Locate section of distribution system to be tested using

|   |   |
|---|---|
| <b>commissioning</b>                        | plans and diagrams  |
|   | <ul style="list-style-type: none"> <li>1.2 Identify and interpret system operation requirements according to workplace procedures</li> <li>1.3 Identify and assess potential hazards and take preventive measures according to workplace procedures</li> <li>1.4 Select and use tools and equipment according to manufacturer instructions</li> <li>1.5 Check testing equipment for accuracy and identify and correct malfunctions</li> </ul> |
| <b>2 Maintain water system hygiene</b>      | <ul style="list-style-type: none"> <li>2.1 Arrange disinfection of construction asset according to workplace procedures</li> <li>2.2 Isolate and flush the relevant section of the distribution system according to workplace procedures</li> <li>2.3 Dispose of discharged water according to workplace procedures</li> </ul>  |
| <b>3 Test the pipeline system</b>           | <ul style="list-style-type: none"> <li>3.1 Determine the correct test pressure for the pipeline according to workplace procedures</li> <li>3.2 Locate and report failed pipes, joints and fittings and reschedule testing</li> </ul>  |
| <b>4 Commission the distribution system</b> | <ul style="list-style-type: none"> <li>4.1 Ensure the distribution system is operational according to workplace procedures</li> <li>4.2 Check, maintain and store equipment, tools and materials according to manufacturer instructions</li> <li>4.3 Restore worksite according to workplace procedures</li> </ul>  |
| <b>5 Record and report results</b>          | <ul style="list-style-type: none"> <li>5.1 Maintain workplace and calibration records and certificates</li> <li>5.2 Collect and store all testing and compliance results</li> </ul>   |

## 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 NWPNET044 Test and commission water distribution systems.

## 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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