



Australian Government

NWPNET049 Construct and install water distribution assets

Release: 2

NWPNET049 Construct and install water distribution assets

Modification History

Release 2. This is the second release of this unit of competency in the NWP National Water Training Package.

- Updated code of pre-requisite unit.

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 construct and install water distribution assets.

It includes constructing and installing assets, pipes and associated fittings, confirming work quality and finalising work.

This unit applies to those working as field and operational staff with responsibility for ensuring water distribution assets are constructed and installed in a safe and timely manner. Those undertaking this unit would work under appropriate supervision either independently or in a team using own familiar resources as required, while performing routine tasks in a range of familiar contexts, ensuring minimum damage to the environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

NWPNET064 Control electrical risk on network pipes

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 Prepare for construction and installation | 1.1 Determine work requirements for construction and installation from plans, specifications and instructions |
| | 1.2 Perform worksite checks to prevent damage to other utilities |
| | 1.3 Select and check equipment and tools required to meet safety and work requirements of task and worksite |
| | 1.4 Select, fit and use personal protective equipment (PPE) |
| | 1.5 Identify potential risks to public and environment, and take appropriate steps to minimise and eliminate risks |
| 2 Construct and install distribution assets and associated fittings | 2.1 Excavate and prepare trenches according to workplace procedures |
| | 2.2 Lay bedding or foundations according to workplace procedures |
| | 2.3 Inspect pipes and fittings, lay and joint |
| | 2.4 Install or place prefabricated components according to manufacturer instructions |
| | 2.5 Connect to existing water system according to industry standards and workplace procedures |
| | 2.6 Backfill excavations according to specifications |
| 3 Confirm work quality and finalise work | 3.1 Check constructed and installed distribution assets, pipes and fittings to ensure specifications are met |
| | 3.2 Check water quality testing results to ensure organisational requirements are met |
| | 3.3 Check, maintain and store equipment, tools and materials according to workplace procedures |
| | 3.4 Restore worksite to meet environmental and workplace procedures |
| | 3.5 Complete workplace records and as constructed drawings and process |

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 NWP National Water Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPNET031 Construct and install water distribution assets.

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 NWPNET049 Construct and install water distribution assets

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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 include:

- checking quality of work and ensuring water quality standards
- completing documentation
- constructing and installing water distribution system assets
- identifying and responding to operational risks
- identifying hazards
- installing associated fittings and components
- interpreting plans, instructions and standard operating procedures
- laying and joining pipes
- planning work and preparing worksite safely
- restoring worksite
- using tools and machinery.

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:

- conditions for connection to live water mains
- electrical safety for disconnection and changing meters and fittings
- environmental aspects of construction and installation
- equipment operation, capacity and limitations
- excavation techniques including shoring and levelling
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards of construction and installation processes
- water distribution components and parts.

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 (PPE) currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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