



Australian Government

NWPNET050 Construct and install wastewater collection assets

Release: 1

NWPNET050 Construct and install wastewater collection assets

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 construct and install wastewater collection assets.

It includes preparing for work, confirming work quality and finalising work. It also includes excavating, preparing trenches, installing or placing prefabricated components and completing documentation.

This unit applies to those working as field staff with specific responsibility for ensuring that wastewater pipelines are constructed and installed in a safe and timely manner. Those undertaking this unit would work under appropriate supervision or in a team using own familiar resources, while performing routine tasks in a range of familiar contexts.

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 construction and installation

PERFORMANCE CRITERIA

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

1.1 Determine work requirements for construction and installation from plans, specifications and instructions

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| | 1.2 | Perform worksite check 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 collection pipelines | |
| | 2.1 | Excavate and prepare trenches according to workplace procedures |
| | 2.2 | Lay bedding or foundations according to workplace procedures |
| | 2.3 | Inspect pipes, fitting, lay and joint |
| | 2.4 | Install or place prefabricated components according to manufacturer instructions and workplace procedures |
| | 2.5 | Backfill excavations according to workplace procedures |
| 3 | Confirm work quality and finalise work | |
| | 3.1 | Check constructed or installed collection assets, pipes and fittings to ensure specifications are met |
| | 3.2 | Check, maintain and store equipment, tools and materials according to workplace procedures |
| | 3.3 | Restore worksite to meet environmental and organisational requirements |
| | 3.4 | Complete workplace records, 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 Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to NWPNET032 Construct and install wastewater 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 NWPNET050 Construct and install wastewater collection 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 includes:

- checking quality of work
- completing documentation
- constructing and installing pipes according to specifications and instructions
- constructing appropriate assets
- installing components specified for wastewater collection system, including requirements for protection
- installing fittings including junctions and side lines
- planning work and preparing worksite safely
- restoring worksite

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 on at least one occasion and includes:

- construction and installation procedures and materials
- environmental aspects of construction and installation
- excavation techniques including shoring and levelling
- relevant legislation, regulations and workplace procedures
- risk factors and potential hazards of construction and installation processes including:
 - effects of weather and conditions on operation of site or plant
 - excavation
- techniques for levelling including:
 - profiles and boning rods
 - safe use of lasers
- techniques for pipe or foundation laying and excavation
- wastewater distributions 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 currently used in industry
- applicable documentation including legislation, regulations, codes of practice, workplace procedures and operation manuals.

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