



Australian Government

NWPIWS004 Install meters for rural water supplies

Release: 1

NWPIWS004 Install meters for rural water supplies

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 meters for rural water supplies.

It includes confirming conditions of the site for meter installation, installing meter facilities and restoring site.

This unit applies to those working as field or operational staff installing meters. Those undertaking this unit would work independently under appropriate supervision, while performing routine tasks 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

Irrigation Water Supply

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Confirm conditions of the site for meter installation

PERFORMANCE CRITERIA

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

1.1 Identify the location of the site and establish client information from work plans and job specifications

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|----------|---------------------------------|--|
| | 1.2 | Identify access to the site and any conditions of access |
| | 1.3 | Assess the conditions of the site |
| | 1.4 | Set out the site for installation of meter according to workplace procedures |
| | 1.5 | Complete risk assessment and identify and control hazards |
| 2 | Install meter facilities | |
| | 2.1 | Calculate installation elevations according to design |
| | 2.2 | Install meter as set out according to design and manufacturer specifications |
| | 2.3 | Check fittings, seals and operation according to workplace procedures |
| | 2.4 | Install ancillary equipment and check for operation and seal |
| | 2.5 | Check meter installation for compliance with manufacturer specifications |
| 3 | Restore site | |
| | 3.1 | Backfill with suitable material, moisture content and compact |
| | 3.2 | Restore the site according to workplace procedures |

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 NWPIRR014 Install meters for rural water supplies.

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 NWPIWS004 Install meters for rural water supplies

Modification History

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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:

- calculating pipe and meter pit elevation, fall and presentation
- checking power supply and links
- compacting backfill
- identifying faults, changes and failure indicators
- identifying risks
- installing ancillary equipment
- planning meter installation and construction
- restoring site
- undertaking a risk assessment and checking hazards and safety requirements

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:

- causes of flow disturbance
- different types of meters
- environmental impact guidelines
- meter manufacturer guidelines and installation manual for specific meters
- potential causes of meter failure
- relevant legislation, regulations and workplace procedures
- relevant meter standards
- relevant safety requirements
- requirements for checking the pattern approval of meters and compliance with meter installation standards
- workplace policies and procedures for water meter installation

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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