



Australian Government

NWPIRR022 Maintain meters for rural water supplies

Release: 1

NWPIRR022 Maintain meters for rural water supplies

Modification History

Release	Comments
1	This unit was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages. This unit supersedes and is equivalent to NWP304A Maintain meter for non-potable, non-urban water supplies. • Unit code updated • Content and formatting updated to comply with the new standards • All PC transitioned from passive to active voice • Unit title changed to better reflect unit outcomes • PC 4.3 removed • PC 1.3 and 1.4 merged • PC 2.1, 2.3, 2.4 and 2.5 merged and revised

Application

This unit describes the skills required to maintain the operational integrity of already installed meters, metering systems and their components. This unit covers corrective, predictive and preventative maintenance.

This unit applies to those working in the water industry as field or operational staff maintaining meters for rural water supply.

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 would work under independently under direct supervision, while performing routine tasks in familiar context.

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

Competency Field

Irrigation

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.
1. Confirm meter type and location within asset management system	1.1 Obtain organisational maintenance plan and manufacturer guidelines. 1.2 Locate meter emplacement on a map, or by GPS, or according to organisational procedures. 1.3 Confirm that meter type and number match maintenance plan or manufacturer guidelines.
2. Check condition of meters and metering system	2.1 Check components and identify faults using an asset condition checklist. 2.2 Establish maintenance requirements.
3. Maintain meter and meter facilities	3.1 Repair or replace faulty components. 3.2 Identify faults which need to be rectified by a third party.
4. Test and recommission	4.1 Ensure meter complies with standards. 4.2 Perform on-site re-test of meter. 4.3 Record faults and meter performance, maintenance and repairs.

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 NA					Reading					Writing					Oral communication NA					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

This unit supersedes and is equivalent to NWP304A Maintain meter for non-potable, non-urban 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 NWPIRR022 Maintain meters for rural water supplies

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. • Assessment Requirements created drawing upon specified assessment information from superseded unit

Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. The candidate must be assessed in at least two of the different fault types listed in the Range of Conditions. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- reading and analysing electronic display
- inputting data into electronic controller
- working with low voltage wiring
- reading manufacturers' instructions, plans, exploded drawings and parts catalogues
- reading verification marks
- using tags and seals
- confirming the site and the meter
- checking meter condition
- replacing components
- documenting the maintenance

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.

- relevant organisational policies and procedures for water meter maintenance
- organisational rights and responsibilities
- manufacturers' maintenance procedures for specific meter types
- knowledge of checking pattern approval requirements
- standards for non-urban metering

- GPS coordinates
- meter types and accuracy limits
- roles and responsibilities of maintenance personnel
- WHS guidelines
- environmental, cultural and heritage guidelines

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.

Links

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