



Australian Government

Assessment Requirements for NWPIRR014 Install meters for rural water supplies

Release: 1

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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 Assessment Requirements created drawing upon specified assessment information from superseded unit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. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- planning meter installation and construction
- undertaking calculation of head, flow and measurements of pipes and pressure
- undertaking locational assessment and risk analysis for meter installation
- sampling and testing soil for backfill and installation structures
- analysing the impact of water infiltration on the stability of structures
- measuring the head of water to judge sufficiency for meter's accuracy
- checking power supply and links
- installing ancillary equipment
- positioning solar panels to maximise power collection
- undertaking a job safety analysis and checking hazards and safety requirements
- using and storing equipment on site
- determining excavation requirements
- calculating sump and headwall elevation and orientation
- calculating pipe and meter pit elevation, fall and presentation
- installing transducers and cabling safely
- interpreting manufacturer requirements for fitting meters in meter pits
- using techniques to protect meters from disturbance
- assessing the effectiveness of backfill
- undertaking site restoration
- identifying and analysing client requirements, site conditions and their impact on the types of meter required, and the design of the installation

- identifying and analysing environmental conditions and limitations and the impact of work to be undertaken
- identifying and analysing safety risks and hazards and responding to remove risks and hazards
- preparing sites and equipment for installation
- identifying faults, changes and failure indicators

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.

- the purpose and standards for non-urban water metering
- community expectations for water measurement and use
- standards for the installation of non-urban meters in open and closed conduit systems
- the social, environmental, economic and political responsibilities of water authorities in relation to meter installation
- requirements for checking the pattern approval of meters and compliance with meter installation standards
- meter manufacturers' guidelines and installation manual for specific meters
- the organisation's policies and procedures for water meter installation
- conditions for meter location and suitable installation assets and meters for the conditions
- causes of flow disturbance
- potential environmental causes of meter failure
- the organisation's environmental impact guidelines
- maintenance requirements for meter facility within and open channel
- relevant safety requirements including confined space

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

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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