



Australian Government

NWPNET038 Install metering equipment

Release: 1

NWPNET038 Install metering equipment

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 metering equipment.

It includes preparing, reading, installing and maintaining flow control metering equipment. It also includes finalising work, restoring worksite and completing documentation.

This unit applies to those working as field staff with responsibility for installing meter equipment in compliance with relevant workplace and statutory requirements. Those undertaking this unit would work under appropriate supervision while performing routine tasks, in a familiar context and ensuring minimum damage to the environment.

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 installing metering equipment

PERFORMANCE CRITERIA

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

- 1.1** Conduct environmental and work, health and safety risk assessment according to workplace procedures
- 1.2** Determine work requirements and worksite from plans,

- specifications and instructions
- 1.3** Check permission to access third-party sites, isolations and permits to work with relevant personnel
 - 1.4** Conduct earth leakage risk assessment according to workplace procedures
 - 1.5** Identify, check and prepare materials, equipment and resources required to satisfy job plan
 - 1.6** Identify metering equipment and recognise specifications for operation
 - 1.7** Select safety equipment and fit and use personal protective equipment (PPE)
 - 1.8** Present identification to customers and organise arrangements to complete repairs
 - 1.9** Select and use earth leakage safety equipment to metallic pipe for installing meters
- 2 Read metering equipment**
- 2.1** Collect and report information on the performance of the metering equipment
 - 2.2** Identify potential faulty meters and apply workplace procedures
- 3 Install flow control and metering devices**
- 3.1** Apply earth leakage safety equipment to metallic pipe according to workplace procedures
 - 3.2** Isolate water flow according to workplace requirements and procedures
 - 3.3** Install new meter or replace existing meter according to manufacturer instructions
 - 3.4** Restore water flow, check for leaks and meter is operating according to manufacturer instructions
 - 3.5** Remove earth leakage safety equipment and restore worksite
- 4 Maintain flow control and metering devices**
- 4.1** Inspect flow control and metering facilities in water distribution
 - 4.2** Complete preventative maintenance and service equipment and facilities according to workplace procedures

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| 5 Finalise work and complete documentation | 5.1 Review, record and report work according to workplace procedures |
| | 5.2 Restore worksite, complete and submit workplace records |
| | 5.3 Check, maintain, store equipment, tools, materials and tag and report faulty equipment 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 NWPNET021 Install metering equipment.

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 NWPNET038 Install metering equipment

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:

- completing workplace documentation
- conducting risk assessments on worksite for operational, electrical and environmental safety factors
- conducting inspections, maintenance and servicing of metering, flow control and regulating devices
- identifying yourself to customers
- identifying and responding to operational problems
- installing and testing metering equipment
- installing flow control and metering devices
- installing, replacing and securing volumetric metering equipment for domestic, industrial and commercial premises
- interpreting plans, specifications and instructions for installation of flow control and metering devices
- preparing for installation of flow control and metering devices
- producing documentation
- using electrical safety procedures
- using personal protective equipment

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:

- data collection and recording system
- electrical earth leakage safety procedures
- environmental, landscape and ground structure of work area for restoration
- equipment operation, capacity and limitations
- flow measurement principles and procedures
- materials handling
- meter types

- relevant legislation, regulations and workplace procedures
- relevant utilities and service bodies
- risk factors and potential hazards
- system layout
- work in confined spaces and at heights

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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