



**Australian Government**

# **NWP215B Install and replace basic volumetric metering equipment**

**Revision Number: 2**

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## **Modification History**

NWP215B Release 2: Layout adjusted. No changes to content.

NWP215B Release 1: Primary release.

## **Unit Descriptor**

This unit of competency describes the outcomes required to install and replace basic volumetric metering equipment for domestic, industrial and commercial premises. The unit also includes the identification of defects and the reporting, replacement and adjustment of metering equipment.

## **Application of the Unit**

This unit supports the attainment of skills and knowledge required for staff responsible for the effective and accurate operation of water metering equipment as a vital component of service delivery and compliance reporting.

## **Licensing/Regulatory Information**

Not applicable.

## **Pre-Requisites**

Not applicable.

## **Employability Skills Information**

This unit of competency contains employability skills.

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency. Performance criteria describe the required performance needed to demonstrate achievement of the element. Where ***bold italicised*** text is used, further information is detailed in the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<b>1 Plan and prepare to install or replace basic volumetric metering equipment.</b>	<p>1.1 Determine work requirements and work site boundaries from specifications or instructions.</p> <p>1.2 Plan work according to job and <b><i>safety requirements</i></b> using relevant plans, drawings, standards and technical data.</p> <p>1.3 Select and use electrical safety equipment according to <b><i>legislative and organisational requirements</i></b>.</p> <p>1.4 Check coordination issues, including permission to access third-party sites, isolations and permits to work with relevant personnel.</p> <p>1.5 Identify, check and prepare materials, equipment and resources required to satisfy job plan according to organisational requirements.</p> <p>1.6 Identify <b><i>basic metering equipment</i></b> and recognise specifications for operation.</p> <p>1.7 Select, fit and use personal protective equipment.</p>
<b>2 Read metering equipment.</b>	<p>2.1 Read meters according to the organisation's operational requirements.</p> <p>2.2 Report readings outside normal parameters and faulty meters and apply organisational procedures for estimating consumption.</p> <p>2.3 Collect and report information on performance metering equipment according to organisational requirements.</p>
<b>3 Finalise work and complete documentation.</b>	<p>3.1 Check, maintain and store equipment, tools and materials according to manufacturer guidelines and organisational requirements.</p> <p>3.2 Restore work site to meet environmental and organisational requirements.</p> <p>3.3 Maintain compliance reports and relevant workplace records as required.</p>

## Required Skills and Knowledge

This describes the essential skills and knowledge and their level, required for this unit.

### Required skills:

- identify and respond to operational problems
- produce reports and logs
- operate communications equipment
- give and receive instructions
- follow plans, charts and instructions
- perform work-related calculations
- use safety equipment and personal protective equipment
- communicate with customers and other employees
- work effectively as part of a team
- use literacy skills in regard to verbal and written communication in the workplace
- secure metering devices

### Required knowledge:

- relevant utilities and service bodies
- organisation's communication systems
- materials handling
- environmental, landscape and ground structure of water and wastewater systems
- risk factors and potential hazards involved with water systems
- equipment operation, capacity and limitations
- effects of weather and conditions on site
- meter types
- equipment placement and operation
- metering measurement procedures
- data collection and recording system
- lock-out procedures for mechanical and electrical installations

## Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, the range statement and the Assessment Guidelines for the Training Package.

### **Critical aspects for assessment and evidence required to demonstrate competency in this unit**

The candidate should demonstrate the ability to install and replace basic volumetric metering equipment for domestic, industrial and commercial premises including:

- planning and preparing for installation or replacement of basic volumetric metering equipment
- installing or replacing meters
- reading meters and report faults
- completing reports

### **Context of and specific resources for assessment**

Access to the workplace and resources including:

- documentation that should normally be available in a water industry organisation
- relevant codes, standards and government regulations

Where applicable, physical resources should include equipment modified for people with disabilities.

Access must be provided to appropriate learning and assessment support when required.

Assessment processes and techniques must be culturally appropriate, and appropriate to the language and literacy capacity of the candidate and the work being performed.

Validity and sufficiency of evidence requires that:

- competency will need to be demonstrated over a period of time reflecting the scope of the role and the practical requirements of the workplace
- where the assessment is part of a structured learning experience the evidence collected must relate to a number of performances assessed at different points in time and separated by further learning and practice
- the assessor has complete confidence in the person's competence over time and in various contexts
- all assessment that is part of a structured learning experience must include a combination of direct, indirect and supplementary evidence
- where assessment is for the purpose of recognition (RCC/RPL), the evidence provided will need to be authenticated and show that it represents competency demonstrated over a period of time
- assessment can be through simulated project-based

activity and must include evidence relating to each of the elements in this unit

In all cases where practical assessment is used it will be combined with targeted questioning to assess the underpinning knowledge. Questioning will be undertaken in a manner appropriate to the skill levels of the operator and cultural issues that may affect responses to the questions, and will reflect the requirements of the competency and the work being performed.

## Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. ***Bold italicised*** wording, if used in the performance criteria, is detailed below. Add any essential operating conditions that may be present with training and assessment depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts.

***Safety requirements*** to be considered in planning work include:

- where relevant, meeting requirements to work in confined spaces and at heights
- use of appropriate personal protective equipment
- organisational electrical safety procedures
- adherence to OHS policies, and statutory and regulatory requirements

***Legislative and organisational requirements*** may include:

- relevant federal and state or territory legislation and regulations
- codes of practice, associated standards and guidance material
- documented organisational policies, manuals and induction programs
- relevant community planning and development agreements, such as land care agreements

***Basic metering equipment*** may include:

- domestic
- industrial
- commercial
- volumetric metering equipment

## Unit Sector(s)

Not applicable.

## **Competency field**

Collection and distribution.