



Australian Government

Department of Education, Employment and Workplace Relations

NWP239B Identify and apply water entitlements and delivery processes

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit descriptor This unit of competency describes the outcomes required to identify and apply irrigation, and stock and domestic supply systems, measure water and report water usage.

Application of the Unit

Application of the unit This unit supports the attainment of skills and knowledge required for field and operational staff involved with the operation of raw water systems, including the identification of water entitlements and delivery processes and the use of legislation relevant to field operators.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability skills 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 required skills and knowledge, and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Identify and apply water entitlements.	<p>1.1 Apply principles of allocation or sale of water to properties and landholders.</p> <p>1.2 Apply changes to <i>entitlement or allocation</i> to properties and between properties to workplace practices where relevant.</p> <p>1.3 Apply relevant sections of <i>legislation</i> relating to water distribution and delivery to workplace practices, including breach notification.</p> <p>1.4 Identify relevant water products and services offered to customers, and customer contracts.</p>
2 Identify and apply principles of water supply networks and distribution systems.	<p>2.1 Identify relevant <i>type and structure</i> of water supply networks and their interaction where relevant.</p> <p>2.2 Identify design and operation of relevant <i>components of water distribution system</i>.</p> <p>2.3 Identify and monitor principles of water flow and factors affecting water flow.</p> <p>2.4 Identify and apply basic principles of regulating water efficiently through the water supply system.</p>
3 Record and monitor water use.	<p>3.1 <i>Monitor, report and measure water flows and volumes</i> according to legislative and organisational requirements.</p> <p>3.2 Identify and monitor balance of water entitlements.</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills:

- follow relevant written policies and procedures
- read meters and other measurement instruments
- perform work-related calculations
- work effectively as part of a team
- complete estimates and record water use
- operate a range of flow control devices
- use literacy skills in regard to verbal and written communication in the workplace
- use personal protective equipment.

Required knowledge:

- relevant sections of Water Acts and legislation
- organisational operating procedures
- property water allocation or entitlement policies
- transferable water entitlement procedures
- workplace system networks or distribution systems
- depth and flow conversion charts.

Evidence Guide

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 identify and apply irrigation, and stock and domestic supply systems, measure water and report water usage including:

- applying water allocation and entitlement principles and procedures
- interpreting and applying relevant legislation, including identification and notification of breaches
- calculating water flows and volumes
- regulating water delivery according to legislative and organisational requirements.

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
- a decision of competence only taken at the point when 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

EVIDENCE GUIDE

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

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.

Entitlement or allocation may include:

- property water rights or leases
- permanent or temporary transfers
- allocations based on storage levels.

Legislation 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.

Type and structure of water reticulation system may include:

- manual and automated channel systems
- pipeline systems
- rivers and streams
- combination of these.

Components of water distribution system may include:

- storages
- channels
- pipelines
- tanks
- control and regulating structures
- supply points.

Operation of reticulation system is ***monitored and reported*** and may require:

- interaction and communication with other employees, other authorities and general public
- visual observation
- use of computerised monitoring systems
- application of processes for identifying and reporting regulated water use and suspected breaches
- implementation of reporting procedures that may also include procedures for implementation of by-laws, organisational policies and statutory requirements.

Measurement of water flows and volumes may be:

- metered
- estimated
- calculated on past usage rates.

Unit Sector(s)

Not applicable.

Competency field

Competency field Collection and distribution