



**Australian Government**

# **NWP20115 Certificate II in Water Industry Operations**

**Release 1**

## NWP20115 Certificate II in Water Industry Operations

### Modification History

Release	Comments
1	<p>This qualification was released in NWP Water Training Package release 1.0 and meets the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>• New qualification. Streams developed to better reflect occupational outcomes.</li></ul>

## Qualification Description

This qualification allows for the attainment of general competencies in water industry operations or specialisation in networks, source, irrigation or treatment.

The general qualification covers the skills required to assist in a broad range of water operations.

The networks specialisation covers the skills required to assist in network operations.

The source specialisation covers the skills required to assist in source operations.

The irrigation specialisation covers the skills required to assist in irrigation operations.

The treatment specialisation covers the skills required to assist in monitoring, operating and controlling treatment processes.

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

### Additional qualification advice

Where a defined specialisation is completed as listed below, the resultant testamur can be titled: Certificate II in Water Industry Operations (field of study) e.g. Certificate II in Water Industry Operations (Networks).

## Packaging Rules

11 units of competency are required for this qualification:

- 2 core units
- 9 elective units

### Specialisation

The candidate may complete either the general qualification or specialise in networks, source, irrigation or treatment by selecting elective units as specified in the table below.

	General	Specialisation			
		Networks	Source	Irrigation	Treatment
<b>Core</b>	2	2	2	2	2
<b>Group A: Work health safety</b>	Choose 1	Choose 1	Choose 1	Choose 1	Choose 1
<b>Group B: Sampling and testing</b>	Choose at least 5 from groups B, C, D, E and/or F, with no more than 2 from any one group		Choose at least 1	Choose at least 1	Choose at least 1
<b>Group C: Networks</b>		Choose at least 5			
<b>Group D: Source</b>			Choose at least 4		
<b>Group E: Irrigation</b>				Choose at least 4	
<b>Group F: Treatment</b>					Choose at least 4
<b>Group G: General</b>	Optional – choose no more than 2	Optional – choose no more than 2	Optional – choose no more than 2	Optional – choose no more than 2	Optional – choose no more than 2
<b>Flexible choice</b>	Choose the remaining elective units from the list below or from elsewhere within this training package. Alternatively, up to 2 of the elective units may be selected from another endorsed training package, or from an accredited course.				
<b>Total number of units</b>	11	11	11	11	11

All elective units selected from outside this qualification must reflect the occupational and learning outcomes of this AQF qualification level. Seek further advice on selecting imported units of competency in the NWP Implementation Guide.

Where a prerequisite unit is attached to an elective unit it is identified by this symbol  $\perp$ .

The prerequisite units attached to any of the elective units must be undertaken and are additional to the number of elective units required for the qualification.

**Elective units selected must not duplicate content already covered by other units in this qualification.**

<b>Core units</b>	
NWPGEN001	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN003	Apply the environmental and licensing procedures of the water industry
<b>Group A: Work health safety</b>	
BSBWHS201	Contribute to health and safety of self and others
BSBWHS301	Maintain workplace safety
<b>Group B: Sampling and testing</b>	
NWPGEN007	Sample and test drinking water
NWPGEN008	Sample and test wastewater
NWPSOU001	Respond to blue-green algae outbreaks
<b>Group C: Networks</b>	
NWPNET002	Prepare and restore work site
NWPNET003	Control electrical risk on metallic pipes
NWPNET004	Monitor and operate network systems
NWPNET011	Locate, identify and protect utilities
NWPNET021	Install metering equipment
NWPNET022	Maintain and repair networks assets for drinking water
NWPNET023	Maintain and repair networks assets for wastewater

NWPNET024	Maintain and repair network assets for bulkwater
NWPNET031	Construct and install water distribution assets
NWPNET032	Construct and install wastewater assets
NWPNET043	Monitor and operate bulkwater transfer systems
NWPIRR001	Monitor and operate irrigation and domestic delivery systems
NWPIRR002	Operate basic flow control and regulating devices in irrigation systems
NWPIRR011	Install devices for irrigation systems
NWPIRR012	Construct open earthen channels and drains
NWPIRR013	Construct and install irrigation delivery and stormwater drainage assets
NWPIRR021	Maintain and repair irrigation channels and drains
RIICCM205D	Carry out manual excavation
RIIWHS202D	Enter and work in confined spaces
<b>Group D: Source</b>	
NWPSOU002	Control vegetation on a site
NWPSOU011	Maintain catchment and surrounding areas
NWPSOU012	Monitor, inspect and report catchment operations
NWPSOU021	Inspect and maintain basic dams and water storages
NWPSOU051	Monitor and operate groundwater extraction
NWPSOU054	Monitor and operate pump stations
NWPNET022	Maintain and repair networks assets for drinking water
NWPNET023	Maintain and repair networks assets for wastewater
<b>Group E: Irrigation</b>	
NWPIRR002	Operate basic flow control and regulating devices in irrigation systems
NWPIRR012	Construct open earthen channels and drains
NWPIRR013	Construct and install irrigation delivery and stormwater drainage assets

NWPIRR021	Maintain and repair irrigation channels and drains
NWPIRR041	Identify and apply water entitlements and delivery processes
NWPNET004	Monitor and operate network systems
NWPNET022	Maintain and repair networks assets for water
NWPNET023	Maintain and repair networks assets for wastewater
<b>Group F: Treatment</b>	
NWPTRT001	Operate and control water treatment processes
NWPTRT012	Operate and control fluoride addition processes
NWPTRT013	Operate and control liquefied chlorine gas disinfection processes
NWPTRT052	Operate and control hypochlorite disinfection processes
NWPTRT053	Operate and control UV processes
NWPTRT055	Operate chlorine dioxide processes
NWPTRT056	Operate and control ozone processes
NWPTRT061	Operate and control wastewater processes
NWPTRT071	Operate and control pre-treatment processes
NWPTRT073	Operate and control wastewater sedimentation processes
NWPTRT101	Operate and control lagoon processes
NWPGEN012	Support the role and functions of the water industry
NWPSOU051	Monitor and operate groundwater extraction
NWPSOU054	Monitor and operate pump stations
<b>Group G: General elective units</b>	
NWPGEN011	Use maps, plans, drawings and specifications
NWPGEN012	Support the role and functions of the water industry
NWPNET002	Prepare and restore work site
CPCCCM1015A	Carry out measurements and calculations

RIISAM204D	Operate small plant and equipment
BSBCMM201	Communicate in the workplace
BSBCUS201	Deliver a service to customers
BSBWOR202	Organise and complete daily work activities
FSKDIG03	Use digital technology for routine workplace tasks
MSAPMOHS216A	Operate breathing apparatus
MSS404061A	Facilitate the use of SCADA systems in a team or work area
RIIWS202D	Enter and work in confined spaces
RIIWS302D	Implement traffic management plan
UEENEEK101A	Maintain safety and tidiness of remote area power supply systems <ul style="list-style-type: none"> <li>└ UEENEEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> <li>└ UEENEEK102A Work safely with remote area power supply systems               <ul style="list-style-type: none"> <li>└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> </ul> </li> </ul>
UEENEEK102A	Work safely with remote area power supply systems <ul style="list-style-type: none"> <li>└ UEENEE101A Apply Occupational Health and Safety regulations, codes and practices in the workplace</li> </ul>

## Qualification Mapping Information

No equivalent qualification.



## Links

GSA website - <http://www.govskills.com.au>

NWP Implementation Guide -

<http://www.govskills.com.au/guides/water/implementation-guide>

NWP Assessment Guide - <http://www.govskills.com.au/guides/water/assessment-guide>

NWP Foundation Skills Guide -

<http://www.govskills.com.au/guides/water/foundation-skills-guide>

NWP Knowledge Guide - <http://www.govskills.com.au/guides/water/knowledge-guide>