



Australian Government

Department of Education, Employment and Workplace Relations

NWP20107 Certificate II in Water Operations

Revision Number: 2

NWP20107 Certificate II in Water Operations

Modification History

NWP20107 Release 2:	Layout adjusted. No changes to content.
NWP20107 Release 1:	Primary release.

Description

To achieve this qualification the candidate must demonstrate competency in 11 units of competency, comprising three core and eight elective units.

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Qualification code: NWP20107

Qualification title: Certificate II in Water Operations

The following table contains a summary of the employability skills as identified by the water industry for this qualification. The employability skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
Communication	<ul style="list-style-type: none"> • communicates effectively with internal and external customers • records and relays relevant information • understands and uses relevant definitions, terminology, symbols and language • interprets plans, drawings and specifications • participates in the implementation and monitoring of OHS policies and procedures • follows reporting procedures for monitoring conformity with statutory requirements • records and reports work activities • produces basic reports and logs • operates communications equipment • gives and receives instructions • follows plans, charts and instructions • understands a range of technical documents, including: <ul style="list-style-type: none"> • specifications • plans • organisational policies • service requirements specified in customer contracts • discusses organisational issues • reports and records hazards and risks • maintains and checks records and documents
Teamwork	<ul style="list-style-type: none"> • works collaboratively and effectively with team members and contractors • describes the organisation's management structure and role relationships • gives and receives instructions • works effectively as part of a team • monitors work processes and ensures safe work practices • applies work procedures accurately and in a timely manner • checks coordination issues, including permission to access third-party sites, isolations and permits to work with relevant personnel • relates positively to fellow workers and the management team

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
Problem solving	<ul style="list-style-type: none"> • responds effectively to hazards, risks and emergencies • conducts relevant tests and monitoring procedures • assesses environmental risks at the local work site • applies control procedures to environmental risks and incidents • inspects water facilities (e.g. dams, distribution systems and treatment facilities) to identify actual or potential problems • analyses problems and applies appropriate remedial solutions • performs relevant calculations • collects and tests samples • restores sites after work • rectifies equipment faults
Initiative and enterprise	<ul style="list-style-type: none"> • identifies risks and hazards • contributes to improvements in environmental procedures • identifies typical faults and problems and takes necessary remedial action • identifies opportunities for improved water management • accesses, interprets and applies relevant legislative responsibilities
Planning and organising	<ul style="list-style-type: none"> • plans and organises personal work activities • plans activities, incorporating appropriate control measures to overcome identified risks and meet required environmental outcomes for specific project or site • confirms testing details and plans testing work according to organisational and statutory requirements • conducts and assesses relevant water tests • contributes to effective management of water operation's assets • identifies and responds to problems experienced in assignments and projects
Self management	<ul style="list-style-type: none"> • plans performance to ensure required levels of service standards and work quality • interprets work requirements • monitors and adjusts work according to requirements for job quality, customer service, public responsibility and resource use • checks, edits, saves, prints and files work according to organisational requirements • reviews and applies standard reporting procedures and identifies impact on work • follows work instructions • finalises work and completes documentation • uses feedback to improve own performance

Employability Skill	Industry/enterprise requirements for this qualification include the following facets:
Learning	<ul style="list-style-type: none"> • seeks and applies feedback on personal performance • uses information effectively to improve work performance • learns from colleagues as part of effective teamwork • responds to suggestions for improvement to personal work performance • seeks advice and assistance from designated organisational personnel in operating computer systems • monitors and adjusts according to requirements for job quality, customer service, public responsibility and resource use
Technology	<ul style="list-style-type: none"> • knows procedures for the use of instruments and other field-testing equipment • prepares and checks testing equipment according to organisational and statutory requirements • applies relevant technologies used to gather, record and monitor, map and plan data • installs and maintains basic metering equipment, and flow control and regulating devices for irrigation systems • selects and uses suitable equipment according to the specific tasks and projects • reads meters • uses test equipment • uses workplace computer equipment • maintains and understands plant, equipment and tools' capabilities and limitations • uses technology to improve efficiency and effectiveness of managing work

The high proportion of electives required by this qualification means that the facets of the above employability skills are representative of the water industry in general and may not reflect specific job roles. Learning and assessment strategies for this qualification should be based on the requirements identified in units of competency that meet packaging guidelines. This table is a summary of employability skills that are typical of this qualification and should not be interpreted as definitive.

Packaging Rules

11 units of competency are required for this qualification including:

- 3 core units
- 8 elective units

Choose a minimum of 5 elective units from the list below.

Choose the remaining 3 units from either the list below, **or** elsewhere in this Training Package, **or** another endorsed Training Package **or** Accredited Course.

All elective units selected from outside this qualification must be selected from qualifications aligned to AQF level 2 or 3.

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

Specialisations are possible within this qualification. Details and examples of specialisation rules are included in the Industry Specialisation section of this Training Package.

Core	
NWP201B	Follow defined OHS procedures and regulatory requirements
NWP202B	Apply environmental and licensing procedures
NWP203B	Plan and organise personal work activities
Electives	
NWP207A	Work effectively in the water industry
NWP208A	Perform basic wastewater tests
NWP209B	Use maps, plans, drawings and specifications
NWP210B	Perform basic water quality tests
NWP211B	Use computerised systems
NWP213B	Monitor and operate irrigation and domestic delivery systems
NWP215B	Install and replace basic volumetric metering equipment
NWP216B	Install basic metering equipment and flow control devices for irrigation systems
NWP218B	Perform and record sampling
NWP219A	Work safely in confined spaces
NWP220B	Collect and control drainage run-off
NWP221A	Operate basic flow control and regulating devices in water or wastewater treatment network systems
NWP222A	Operate basic flow control and regulating devices in irrigation systems
NWP223A	Install basic metering equipment, flow control and regulating devices
NWP226B	Prepare and restore work site

NWP227B	Control vegetation on a site
NWP229B	Repair minor structures
NWP230B	Maintain and repair irrigation channels and drains
NWP231B	Maintain and repair drainage assets
NWP232B	Operate water reticulation and distribution system
NWP233B	Construct and install water distribution assets
NWP234B	Locate, identify and protect utility services
NWP239B	Identify and apply water entitlements and delivery processes
NWP240B	Inspect and report catchment and surrounding areas
NWP241B	Inspect and maintain basic dams and water storages
NWP242B	Monitor and report water extraction
NWP243B	Operate bore fields and groundwater source systems
NWP244B	Maintain and repair bulkwater assets
NWP245B	Maintain tanks and water storage assets
NWP246B	Inspect and maintain public facilities
NWP247A	Maintain catchment and surrounding areas
NWP250B	Construct and install wastewater pipelines
NWP251B	Construct open earthen channels or drains
NWP252B	Construct and install irrigation delivery and stormwater drainage assets
NWP253B	Install and repair water services
NWP254B	Repair or insert water distribution assets
NWP255B	Maintain and repair wastewater collection assets
NWP256B	Monitor and report water distribution systems
NWP257B	Maintain and repair wastewater collection systems
NWP258B	Monitor and operate bulkwater transfer systems

NWP259B	Operate, monitor and maintain pump stations
NWP260A	Monitor and report water treatment processes
NWP261A	Operate and maintain water treatment plant and equipment
NWP262A	Monitor and report wastewater treatment processes
NWP263A	Operate and maintain wastewater treatment plant and equipment
NWP264B	Monitor, operate and report wastewater pre-treatment processes
NWP268B	Monitor, operate and report chlorine disinfection systems
NWP270B	Monitor, operate and report basic anaerobic processes
NWP271B	Monitor, operate and report sedimentation processes
NWP272B	Monitor, operate and report wastewater lagoon processes
NWP273A	Monitor, operate and report ultraviolet irradiation disinfection systems
NWP274A	Monitor, operate and report ozone treatment systems
NWP275A	Monitor, operate and report chlorine dioxide systems
NWP276A	Monitor, operate and report fluoridation systems
NWP277A	Work safely with liquefied chlorine gas
NWP278A	Perform blue green algae sampling
NWP279	Demonstrate knowledge of the risk management principles of the Australian drinking water guidelines
BSBSUS201A	Participate in environmentally sustainable work practices
RIICCM205A	Carry out manual excavation
RIICCM210A	Install trench support