



Australian Government

NWP40120 Certificate IV in Water Industry Operations

Release 2

NWP40120 Certificate IV in Water Industry Operations

Modification History

Release 2. This is the second release of this qualification in NWP Water Training Package. The following imported general elective units have been updated:

- RICTT401D
- RICTT402D.

Release 1. This is the first release of this qualification in NWP Water Training Package.

Qualification Description

This is a qualification for those engaged in generalist water industry operations or specialisations in catchment and dams, hydrometric monitoring, irrigation water supply, networks, trade waste or treatment.

This qualification also covers the skills and knowledge for those who have supervisory responsibility and require a broad range of skills within operations.

Group A: Specialist Elective - Catchment and Dams

This specialisation covers the skills and knowledge required to monitor and operate catchments, weirs, locks, dams, rivers, reservoirs, bulk water and groundwater management and implement operational and safety plans.

Group B: Specialist Elective - Hydrometric Monitoring

This specialisation covers the skills and knowledge required to measure, collect and analyse hydrometric information and review the accumulated data to develop water management plans for inland water systems including rivers, lakes, stormwater and sewage.

Group C: Specialist Elective - Irrigation Water Supply

This specialisation covers the skills and knowledge required to coordinate and monitor the operation of irrigation systems.

Group D: Specialist Elective - Networks

This specialisation covers the skills and knowledge required to operate, construct, and maintain water and wastewater networks.

Group E: Specialist Elective - Trade Waste

This specialisation covers the skills and knowledge required to coordinate and monitor compliance, licencing and regulations of trade waste management.

Group F: Specialist Elective - Treatment

This specialisation covers the skills and knowledge required to assess and improve treatment processes for wastewater and water treatment plants.

Please note: RTO to insert on the testamur, the specialist elective unit group selected from the

group choice below.

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

Entry Requirements

There are no entry requirements for this qualification.

Packaging Rules

A total of **10 units** of competency comprising:

General Qualification

- **3 core units** listed below, plus
- **7 elective units** selected from anywhere within this qualification, or

Specialisations

- **3 core units** listed below, plus
- **3 units** from one of the Groups: A, C or E, **or**
- **4 units** from one of the Groups: B or D or F, **plus**
- **all remaining elective units** can be selected from anywhere within this qualification.

Up to 2 of the elective units may be selected, with appropriate contextualisation from a qualification in this or any other endorsed Training Package, provided selected units contribute to the vocational outcome of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with. Prerequisites attached to any of the units must be obtained and are additional to the number of units required for the qualification.

Core units

BSBPEF402	Develop personal work priorities
BSBWHS411	Implement and monitor WHS policies, procedures and programs
NWPGEN030	Coordinate and monitor the application of environmental plans and procedures

Group A: Catchment and Dams

NWPCAD014	Inspect and report river performance
NWPCAD021	Coordinate and monitor bulkwater system operations
NWPCAD022	Coordinate and monitor groundwater system usage

NWPCAD023 Develop and implement catchment operational plans

NWPCAD024 Implement dam safety plans

Group B: Hydrometric Monitoring

AHCLPW313 Undertake sampling and testing of water

FSKNUM021 Apply an expanding range of arithmetical calculations for work

MSL924003 Process and interpret data

NWPCAD022 Coordinate and monitor groundwater system usage

NWPGEN022 Perform laboratory testing

NWPHYD007 Measure discharge using wading method

NWPHYD008 Operate, maintain and decommission monitoring sites

NWPHYD009 Undertake surveying of monitoring sites

Group C: Irrigation Water Supply

NWPCAD014 Inspect and report river performance

NWPCAD021 Coordinate and monitor bulkwater system operations

NWPGEN027 Monitor and operate pump stations

NWPIWS013 Coordinate and monitor pumped rural irrigation systems

NWPIWS014 Coordinate and monitor the operation of irrigation delivery systems

Group D: Networks

BSBOPS404 Implement customer service strategies

NWPNET055 Coordinate and manage maintenance and repair of network assets

NWPNET056 Coordinate and monitor network asset construction

NWPNET057 Establish connections of water and wastewater systems

NWPNET058 Optimise network systems

NWPNET059 Supervise and report on conduit inspections

Group E: Trade Waste

NWPCAD003 Identify and confirm blue-green algae outbreaks

NWPGEN028	Investigate and report on breaches of water industry legislation
NWPGEN033	Sample and test trade wastewater
NWPTRD006	Investigate trade waste incidents and non-compliances
NWPTRD007	Monitor trade waste approvals
NWPTRD008	Process standard trade waste approvals

Group F: Treatment

MSS404061	Facilitate the use of SCADA systems in a team or work area
NWPGEN025	Apply principles of chemistry to water systems and processes
NWPGEN029	Contribute to continuous improvement of quality systems
NWPTRT049	Assess and improve activated sludge and biological nutrient removal processes
NWPTRT050	Assess and improve anaerobic digestion processes
NWPTRT057	Assess and improve coagulation and flocculation processes
NWPTRT058	Assess and improve desalination processes
NWPTRT059	Assess and improve granular media filters
NWPTRT060	Assess and improve membrane bioreactor processes
NWPTRT063	Assess and improve membrane filters
NWPTRT064	Assess and improve sedimentation processes
NWPTRT065	Assess and improve treatment for removal of microorganisms in drinking water and recycled water
NWPTRT066	Assess and improve wastewater processes to control microbial impacts
NWPTRT067	Assess and optimise chemical dosing processes in wastewater

General elective units

BSBINS302	Organise workplace information
BSBLDR414	Lead team effectiveness
BSBOPS402	Coordinate business operational plans

BSBWHS412	Assist with workplace compliance with WHS laws
BSBWHS413	Contribute to implementation and maintenance of WHS consultation and participation processes
BSBWHS414	Contribute to WHS risk management
BSBWHS416	Contribute to workplace incident response
BSBWHS431	Develop processes and procedures for controlling hazardous chemicals in the workplace
BSBXBD403	Analyse big data
BSBXBD404	Use big data for operational decision making
BSBXCM401	Apply communication strategies in the workplace
BSBXTW401	Lead and facilitate a team
NWPCAD001	Respond to blue-green algae outbreaks
NWPGEN020	Sample and test source or drinking water
NWPGEN031	Develop an operational plan
NWPGEN032	Ensure compliance with water industry standards, guidelines and legislation
NWPHYD006	Measure discharge and process discharge data using a range of methods and equipment
RIICTT401E	Supervise the installation of underground services using trenchless technology
RIICTT402E	Supervise repair and rehabilitation of underground services using trenchless technology
TAEDEL301	Provide work skill instruction

Qualification Mapping Information

This qualification replaces and is equivalent to NWP40515 Certificate IV in Water Industry Operations and NWP40615 Certificate IV in Water Industry Treatment.

Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

