



Australian Government

NWP40120 Certificate IV in Water Industry Operations

Release 1

NWP40120 Certificate IV in Water Industry Operations

Modification History

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

BSBP402	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

RIICTT401D Apply the principles for the installation of underground services using trenchless technology

RIICTT402D Apply principles for repair & 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>