



Australian Government

NWP30219 Certificate III in Water Industry Operations

Release 3

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Modification History

Release 3 - This is the third release of this qualification in NWP National Water Training Package.

- General elective typographical error corrected CPCPPS5024.

Release 2 – This is the second release of this qualification in NWP National Water Training Package. Updated imported units to reflect current assessment requirements - (BSBCMM301, BSBCUS301, BSBINM301, BSBWHS301, BSBWOR301, CPPHSA4003A, FSKNUM21, RIIRIS202D, RIICBS310D, RIISAM203D, RIISAM204D, RIWHS202D, RIWHS302D & RIWHS204D).

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

Qualification Description

This is a qualification for those engaged in generalist water industry operations or specialisations in catchment and dams, civil construction, irrigation water supply, networks, treatment: water and wastewater, wastewater treatment or water treatment.

The general qualification covers skills and knowledge to obtain a broad range of skills in the water industry. It allows staff to apply operational and procedural practices under the appropriate level of supervision.

Group A: Specialist Elective - Catchment and Dams

This specialisation covers the skills and knowledge required to monitor, operate and maintain water catchment and dam operations.

Group B: Specialist Elective - Civil Construction

This specialisation covers the skills and knowledge required to monitor, operate and maintain civil construction operations.

Group C: Specialist Elective - Irrigation Water Supply

This specialisation covers the skills and knowledge required to monitor, operate and maintain irrigation water supply operations.

Group D: Specialist Elective - Networks

This specialisation covers the skills and knowledge required to monitor, operate and maintain network operations.

Group E: Specialist Elective - Treatment: Water and Wastewater

This specialisation covers the skills and knowledge required to monitor, operate and maintain treatment operations for both water and wastewater.

Group F: Specialist Elective - Wastewater Treatment

This specialisation covers the skills and knowledge required to monitor, operate and maintain wastewater treatment operations.

Group G: Specialist Elective - Water Treatment

This specialisation covers the skills and knowledge required to monitor, operate and maintain drinking water treatment operations.

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 **11 units** of competency comprising:

General Qualification

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

Specialisations

- **2 core units** listed below, plus
- **5 units** from one of the Groups: A, B, C, D, or F, or
- **7 units** from Group E: (select **6 units** from specialist elective Groups: F and G, with a minimum of **2 units** from each Group), the selection must include NWPGEN017, or
- **6 units** from Group G, the selection must include NWPGEN017, and
- 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.

Where a prerequisite is attached to a unit it is identified by the symbol \perp .

Core units

BSBWHS308	Participate in WHS hazard identification, risk assessment and risk control processes
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NWPGEN019 Assess, implement and report environmental procedures

Group A: Catchment and Dams

NWPCAD001 Respond to blue-green algae outbreaks

NWPCAD003 Identify and confirm blue-green algae outbreaks

NWPCAD006 Monitor and coordinate catchment operations

NWPCAD008 Monitor and control dam operations

NWPCAD009 Monitor and implement dam maintenance

NWPCAD010 Inspect and report on concrete dam safety

NWPCAD011 Inspect and report on embankment dam safety

NWPCAD012 Route floods through storages

NWPCAD013 Conduct and report dam safety instrumentation monitoring

NWPCAD014 Inspect and report river performance

NWPCAD015 Operate and maintain locks and weirs

NWPCAD016 Operate and maintain fishways

NWPCAD017 Operate and maintain salt interception works

NWPCAD018 Monitor and operate bulkwater transfer systems

NWPCAD020 Inspect and operate groundwater regulation

Group B: Civil Construction

AHCSAW302 Implement erosion and sediment control measures

CPCCCM2004A Handle construction materials
└ CPCCOHS2001A Apply OHS requirements, policies and procedures in the construction industry

CPCCCM3005 Calculate costs of construction work

CPCCLDG3001A Licence to perform dogging

FWPCOT2239 Trim and cut felled trees

PMBWELD301 Butt weld polyethylene plastic pipelines

PMBWELD302	Electrofusion weld polyethylene pipelines
PMBWELD305	Install polyethylene plastic pressure pipelines
PMBWELD308	Install PVC plastic pressure pipelines
RIICBS310E	Conduct patching operations
RIICCM205E	Carry out manual excavation
RIICCM207D	Spread and compact materials manually
RIICCM208D	Carry out basic levelling
RIICCM209D	Carry out concrete work
RIICCM210D	Install trench support
RIICCM211D	Erect and dismantle temporary fencing and gates
RIICCM301D	Construct and dismantle fences and gates
RIICPL302D	Install stormwater systems
RIICPL304D	Install pre-cast gully pits
RIICPL305D	Install pre-cast access chambers
RIICRC202D	Install signs
RIICRC301D	Maintain drainage systems
RIICRC303D	Lay pavers
RIICRC314D	Handle concrete materials
RIICRC315D	Use concreting materials and equipment
RIICRC323D	Insert tie bars in fresh concrete
RIICWM501D	Implement civil construction plan
RIIHAN211D	Conduct basic scaffolding operations
RIIHAN308F	Load and unload plant
RIIMPO327E	Conduct pipe layer operations
RIIRIS202E	Respond to site based spills
RIISAM203E	Use hand and power tools

RIISAM204E	Operate small plant and equipment
RIIWHS202E	Enter and work in confined spaces
RIIWHS204E	Work safely at heights
RIIWMG203D	Drain and dewater civil construction site
TLILIC0013	Licence to operate a slewing mobile crane (up to 60 tonnes)

Group C: Irrigation Water Supply

NWPIWS001	Monitor and operate rural irrigation and domestic delivery systems
NWPIWS003	Inspect and operate water diversion systems
NWPIWS004	Install meters for rural water supplies
NWPIWS006	Maintain meters for rural water supplies
NWPIWS007	Detect and rectify faults with automated channel regulators
NWPIWS008	Monitor and conduct maintenance on rural irrigation assets
NWPIWS009	Monitor and control drainage operations
NWPIWS010	Monitor and control rural water distribution operations
NWPIWS012	Monitor and schedule water deliveries

Group D: Networks

MSMWJ301	Operate a high pressure water jetting system
NWPGEN027	Monitor and operate pump stations
NWPIWS003	Inspect and operate water diversion systems
NWPIWS004	Install meters for rural water supplies
NWPIWS006	Maintain meters for rural water supplies
NWPNET018	Disinfect network assets
NWPNET020	Control electrical risk on metallic pipes
NWPNET028	Monitor and operate network systems
NWPNET030	Identify and respond to water quality problems
NWPNET035	Perform odour and infiltration investigations

NWPNET036	Perform leak detection
NWPNET037	Inspect sewer or stormwater assets
NWPNET039	Maintain and repair network assets for drinking water
NWPNET040	Maintain and repair network assets for wastewater
NWPNET047	Install, maintain and repair hydrants
NWPNET048	Monitor and control vacuum sewer systems
NWPNET051	Monitor and operate water distribution systems
NWPNET052	Monitor and operate wastewater collection and transfer systems
NWPNET053	Test and commission water distribution systems
NWPNET054	Test and commission wastewater collection systems
NWPTRT030	Operate and control odour removal processes
RIICCM205E	Carry out manual excavation
RIICCM209D	Carry out concrete work
RIICCM210D	Install trench support
RIICWM501D	Implement civil construction plan
RIIMPO327E	Conduct pipe layer operations
RIISAM203D	Use hand and power tools

Group E: Treatment: Water and Wastewater

Up to 6 units from Groups F and G with a minimum of 2 units from each group.

NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
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Group F: Wastewater Treatment

NWPCAD001	Respond to blue-green algae outbreaks
NWPGEN021	Sample and test wastewater
NWPGEN022	Perform laboratory testing
NWPTRT010	Operate and control sedimentation and clarification processes

NWPTRT016	Operate and control dissolved air flotation processes
NWPTRT019	Operate and control granular media filters
NWPTRT020	Operate and control membrane filters
NWPTRT024	Operate and control chloramination processes
NWPTRT028	Operate and control reclaimed water irrigation
NWPTRT030	Operate and control odour removal processes
NWPTRT036	Operate and control activated sludge processes
NWPTRT037	Operate and control nutrient removal processes
NWPTRT038	Operate and control fixed film processes
NWPTRT039	Operate and control solids handling processes
NWPTRT040	Operate and control digestion processes
NWPTRT046	Operate and control incineration processes
NWPTRT047	Monitor, operate and control lagoon processes

Group G: Water Treatment

NWPCAD001	Respond to blue-green algae outbreaks
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN020	Sample and test source or drinking water
NWPGEN022	Perform laboratory testing
NWPTRT008	Operate and control iron and manganese removal processes
NWPTRT009	Operate and control coagulation and flocculation processes
NWPTRT010	Operate and control sedimentation and clarification processes
NWPTRT016	Operate and control dissolved air flotation processes
NWPTRT017	Operate and control activated carbon processes
NWPTRT018	Operate and control ion exchange and softening processes
NWPTRT019	Operate and control granular media filters

NWPTRT020	Operate and control membrane filters
NWPTRT021	Operate and control desalination processes
NWPTRT024	Operate and control chloramination processes
NWPTRT039	Operate and control solids handling processes

General elective units

AHCCHM101	Follow basic chemical safety rules
BSBFLM305	Support operational plan
BSBFLM312	Contribute to team effectiveness
BSBINS302	Organise workplace information
BSBOPS304	Deliver and monitor a service to customers
BSBOPS305	Process customer complaints
BSBPEF301	Organise personal work priorities
BSBWHS307	Apply knowledge of WHS laws in the workplace
BSBWHS309	Contribute effectively to WHS communication and consultation processes
BSBWHS311	Assist with maintaining workplace safety
CPCCDE3014	Remove non-friable asbestos └ CPCCWHS1001 Prepare to work safely in the construction industry
CPCCDE4008	Supervise asbestos removal └ CPCCDE3014 Remove non-friable asbestos └ CPCCDE3015 Remove friable asbestos
CPCCOM1015	Carry out measurements and calculations
CPCPPS5024	Conduct a water audit and identify water-saving initiatives
CPPHES4006	Assess household water use and efficiency improvements
FSKNUM021	Apply an expanding range of arithmetical calculations for work
MSL904002	Perform standard calibrations
MSL922001	Record and present data
MSMWHS216	Operate breathing apparatus

MSS402061	Use SCADA systems in operations
MSS404061	Facilitate the use of SCADA systems in a team or work area
NWPCAD002	Control vegetation on a site
NWPCAD019	Monitor and operate groundwater extraction
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN023	Use maps, plans, drawings and details
NWPGEN024	Identify the role and functions of the water industry
NWPGEN025	Apply principles of chemistry to water systems and processes
NWPGEN026	Provide and promote customer service
NWPGEN028	Investigate and report on breaches of water industry legislation
NWPNET019	Prepare and restore worksite
NWPTRT005	Monitor and operate water treatment processes
NWPTRT006	Monitor and operate fluoride addition processes
NWPTRT007	Monitor and operate liquefied chlorine gas disinfection processes └ MSMWHS216 Operate breathing apparatus
NWPTRT022	Monitor and operate hypochlorite disinfection processes
NWPTRT023	Monitor and operate ultraviolet processes
NWPTRT026	Monitor and operate ozone processes
NWPTRT027	Monitor and operate wastewater treatment processes
RIIWHS302E	Implement traffic management plans
TLID2003	Handle dangerous goods/hazardous substances

Qualification Mapping Information

This qualification replaces and is equivalent to NWP30215 Certificate III in Water Industry Operations, NWP30315 Certificate III in Water Industry Treatment or NWP30415 Certificate III in Water Industry Irrigation.

Links

Companion Volume implementation guides are found in VETNet -

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