

# NWP30219 Certificate III in Water Industry Operations

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### **Modification History**

**Release 4** - This is the fourth release of this qualification in the NWP National Water Training Package.

• Imported unit RIICRC323E deleted due to zero enrolments.

**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, RIIWHS202D, RIIWHS302D & RIIWHS204D).

**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.

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#### 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  $\bot$ .

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#### Core units

BSBWHS308 Participate in WHS hazard identification, risk assessment and risk control

processes

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

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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

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

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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

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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

RIISAM203E 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

#### **Group F: Wastewater Treatment**

NWPCAD001 Respond to blue-green algae outbreaks

NWPGEN021 Sample and test wastewater

NWPGEN022 Perform laboratory testing

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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

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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

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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.

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## Links

Companion Volume implementation guides are found in VETNet - <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037</a>

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