

COMPANION VOLUME IMPLEMENTATION GUIDE

NWP NATIONAL WATER TRAINING PACKAGE

Release 5.0



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ABOUT AUSTRALIAN INDUSTRY STANDARDS

Australian Industry Standards (AIS) provides high-quality, professional secretariat services to eleven Industry Reference Committees (IRCs), in our role as a Skills Service Organisation (SSO).

The eleven allocated IRCs incorporate Gas, Electricity, Electrotechnology, Corrections, Public Safety (including Police, Fire Services, Defence), Water, Aviation, Rail, Maritime and Transport and Logistics industries. AIS supports these important industry sectors using our world-class in-house capability and capacity in technical writing, quality assurance, project management and industry engagement in the production of Training Packages.

AIS was established in early 2016, 20 years after its predecessor the Transport and Logistics Industry Skills Council (TLISC) was established in 1996. More information about AIS can be found at www.australianindustrystandards.org.au

- We support industry growth and productivity through our modern innovative approach to establishing skills standards
- We provide high-quality, professional secretariat services to help our allocated IRCs develop the skills that industry needs
- We partner with industry to shape the workforce of the future.

OVERVIEW INFORMATION

This Companion Volume Implementation Guide (CVIG) is designed to assist assessors, trainers, Registered Training Organisations (RTOs) and enterprises in delivering the NWP National Water Training Package. It provides advice about the structure of the Training Package; its key features and useful links to more detailed information on a range of related topics.

VERSION CONTROL AND MODIFICATION HISTORY

Training Packages are dynamic documents and are amended periodically to reflect the latest industry practices. Training Packages are version controlled so it is essential that the latest release is always used.

In the version control and modification history table below, the latest information is provided first.

Version Number	Release Date	Comments
5.0	7 December 2022	This is the fifth release of this Training Package. Two (2) revised Qualifications: • NWP20122 Certificate II in Water Industry Operations • NWP30222 Certificate III in Water Industry Operations

Version Number	Release Date	Comments
		Two (2) SSO upgraded Qualifications: • NWP40120 Certificate IV in Water Industry Operations • NWP50118 Diploma of Water Industry Operations Four (4) new Units of Competency: • NWPGEN034 Operate and maintain flood warning sites • NWPNET060 Clean networks using air scouring, chemical or swabbing techniques • NWPNET062 Maintain network assets using high pressure water systems • NWPNET063 Use digital imaging equipment in the field One (1) revised Units of Competency • NWPNET061 Maintain and repair network assets for drinking water Three (3) SSO upgraded Units of Competency: • NWPNET049 Construct and install water distribution assets • NWPNET064 Control electrical risk on network pipes • NWPNET065 Perform odour and infiltration investigations One (1) new Skill Set: • NWPSS00015 Flood Warning Site Operators Skill Set
4.3	28 June 2021	This is a minor release to correct information in the application of One (1) SSO upgraded Unit of Competency: • NWPTRT019 Operate and control granular media filters
4.2	6 May 2021	This is a minor release to correct typographical information and remove zero enrolment imported units. This release incorporates 1 qualification. One (1) SSO upgraded qualification: • NWP30219 Certificate III in Water Industry Operations
4.1	24 March 2021	This is a minor release to correct typographical information. This release incorporates 2 qualifications and 1 Skill Set. Two (2) SSO upgraded qualifications: • NWP40120 Certificate IV in Water Industry Operations • NWP30219 Certificate III in Water Industry Operations One (1) SSO upgraded Skill Set: • NWPSS00013 Hydrometric Monitoring Basics Skill Set
4.0	22 January 2021	This is the fourth release of this Training Package.

Version Number	Release Date	Comments
		This release incorporates one revised qualification, three new Units of Competency, five updated and reviewed Skill Sets and 31 revised Units of Competency. One (1) revised qualification: • NWP40120 Certificate IV in Water Industry Operations Three (3) SSO upgraded qualifications: • NWP20119 Certificate II in Water Industry Operations • NWP30219 Certificate III in Water Industry Operations • NWP50118 Diploma of Water Industry Operations Three (3) new Units of Competency: • NWPTRT060 Assess and improve membrane bioreactor processes • NWPTRT063 Assess and improve membrane filters • NWPTRT067 Assess and optimise chemical dosing processes in wastewater Thirty-one (31) revised Units of Competency: • 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 • NWPGEN029 Contribute to continuous improvement of quality systems • NWPGEN030 Coordinate and monitor the application of environmental plans and procedures • NWPGEN031 Develop an operational plan • NWPGEN032 Ensure compliance with water industry standards, guidelines and legislation • NWPGEN033 Sample and test trade wastewater • NWPHYD006 Measure discharge and process discharge data using a range of methods and equipment • NWPHYD007 Measure discharge using wading method • NWPHYD008 Operate, maintain and decommission monitoring sites • NWPHYD009 Undertake surveying of monitoring sites • NWPIWS013 Coordinate and monitor pumped rural irrigation systems • NWPIWS014 Coordinate and monitor the operation of irrigation delivery systems • 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 • NWPTRD006 Investigate trade waste incidents and non-compliances • NWPTRD007 Monitor trade waste approvals • NWPTRD008 Process standard trade waste approvals

Version Number	Release Date	Comments
		- 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 - 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 Two (2) SSO upgraded Unit of Competency: - NWPNET040 Maintain and repair network assets for wastewater - NWPTRT021 Operate and control desalination processes One (1) new Skill Set: - NWPSS00011 Dam Operations and Maintenance Skill Set Four (4) reviewed Skill Sets: - NWPSS00002 Catchment Operations Skill Set - NWPSS00012 Environmental Procedures Skill Set - NWPSS00013 Hydrometric Monitoring Basics Skill Set - NWPSS00014 Water Sampling Skill Set
3.0	04 February 2020	This is the third release of this Training Package. This release incorporates two revised qualifications, one new unit of competency and 93 revised units of competency. Two revised qualifications: - NWP20119 Certificate II in Water Industry Operations - NWP30219 Certificate III in Water Industry Operations One new unit: - NWPTRT048 Monitor and operate reclaimed water irrigation Ninety-three (93) revised units of competency: - NWPCAD001 Respond to blue-green algae outbreaks - NWPCAD002 Control vegetation on a site - NWPCAD003 Identify and confirm blue-green algae outbreaks - NWPCAD004 Maintain catchment and surrounding areas - NWPCAD005 Monitor, inspect and report catchment areas - NWPCAD006 Monitor and coordinate catchment operations - NWPCAD007 Inspect, operate and maintain low consequence dams - NWPCAD008 Monitor and control dam operations - NWPCAD009 Monitor and implement dam maintenance - NWPCAD010 Inspect and report on concrete dam safety

Version Number	Release Date	Comments
		• 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 • NWPCAD019 Monitor and operate groundwater extraction • NWPCAD020 Inspect and operate groundwater regulation • NWPGEN017 Apply the risk management principles of the water industry standards, guidelines and legislation • NWPGEN018 Follow environmental and licensing procedures • NWPGEN019 Assess, implement and report environmental procedures • NWPGEN020 Sample and test source or drinking water • NWPGEN021 Sample and test wastewater • NWPGEN022 Perform laboratory testing • 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 • NWPGEN027 Monitor and operate pump stations • NWPGEN028 Investigate and report on breaches of water industry legislation • NWPIWS001 Monitor and operate rural irrigation and domestic delivery systems • NWPIWS002 Operate regulating devices in rural irrigation systems • NWPIWS003 Inspect and operate water diversion systems • NWPIWS004 Install meters for rural water supplies • NWPIWS005 Maintain and repair irrigation channels and drains • 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 • NWPIWS011 Identify and apply water entitlements and delivery processes • NWPIWS012 Monitor and schedule water deliveries • NWPNET018 Disinfect network assets • NWPNET019 Prepare and restore worksite • NWPNET020 Control electrical risk on metallic pipes • NWPNET028 Monitor and operate network systems • NWPNET029 Locate, identify and protect utilities • NWPNET030 Identify and respond to water quality problems • NWPNET035 Perform odour and infiltration investigations • NWPNET036 Perform leak detection

Version Number	Release Date	Comments
		• NWPNET037 Inspect sewer or stormwater assets • NWPNET038 Install metering equipment • NWPNET039 Maintain and repair network assets for drinking water • NWPNET040 Maintain and repair network assets for wastewater • NWPNET046 Maintain and repair network assets for bulkwater • NWPNET047 Install, maintain and repair hydrants • NWPNET048 Monitor and control vacuum sewer systems • NWPNET049 Construct and install water distribution assets • NWPNET050 Construct and install wastewater collection assets • 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 • NWPTRT005 Monitor and operate water treatment processes • NWPTRT006 Monitor and operate fluoride addition processes • NWPTRT007 Monitor and operate liquefied chlorine gas disinfection processes • 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 • NWPTRT022 Monitor and operate hypochlorite disinfection processes • NWPTRT023 Monitor and operate ultraviolet processes • NWPTRT024 Operate and control chloramination processes • NWPTRT025 Monitor and operate chlorine dioxide processes • NWPTRT026 Monitor and operate ozone processes • NWPTRT027 Monitor and operate wastewater treatment processes • NWPTRT028 Operate and control reclaimed water irrigation • NWPTRT029 Monitor and operate pre-treatment processes • 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

Version Number	Release Date	Comments
2.0	21 December 2018	This is the second release of this Training Package. This release incorporates one updated qualification, 20 new units of competency and 16 revised units of competency. One (1) updated qualification: - NWP50118 Diploma of Water Industry Operations Twenty (20) new units of competency: - NWPAMG001 Manage asset construction and maintenance - NWPCCO001 Analyse and implement network data - NWPCCO002 Use control centre systems to monitor and control water - NWPGEN016 Interpret and comply with regulatory requirements - NWPHYS001 Identify and analyse information technology for hydrographic surveys - NWPHYS002 Interpret and analyse science principles for hydrographic surveying - NWPHYS003 Manage and analyse water levels and flows - NWPHYS004 Manage hydrographic surveying projects - NWPHYS005 Use alternate positioning systems to gather data - NWPHYS006 Use remote sensing for hydrographic surveying - NWPHYS007 Use underwater acoustics to map waterways - NWPNET006 Apply construction principles to civil works in the water industry - NWPNET008 Develop and manage a drinking water system plan - NWPNET009 Develop and manage a wastewater collection plan - NWPNET010 Develop and manage an alternate water supply plan - NWPSOU004 Develop and manage a catchment plan - NWPSOU005 Develop and manage a dam safety inspection plan - NWPTRT002 Develop and manage a treatment process monitoring program - NWPTRT003 Develop and manage a wastewater treatment plan - NWPTRT004 Develop and manage a water treatment plan Sixteen (16) revised units of competency: - NWPHYD002 Apply principles of open channel hydraulics - NWPHYD003 Develop and maintain ratings - NWPHYD004 Plan water resource management - NWPHYD005 Process and report hydrographic time series data - NWPIRR004 Develop and review a groundwater plan - NWPIRR005 Develop and review a surface water plan - NWPIRR006 Develop and review an irrigation system plan - NWPIRR007 Implement and coordinate a surface water plan - NWPIRR008 Implement and coordinate an irrigation delivery system plan - NWPNET007 Conduct commissioning and post-commissioning activities - NWPSOU006 Develop and manage a flood plan - NWPSOU007 Implement and coordinate a catchment plan

Version Number	Release Date	Comments
		• NWPSOU008 Implement and coordinate a groundwater plan • NWPTRD003 Evaluate, implement and monitor high risk trade waste discharge approvals • NWPTRD004 Implement and manage trade waste policies and plans • NWPTRD005 Develop and modify trade waste policies and plans
1.0	7 December 2015	This is the first release of this Training Package. The NWP Water Training Package was developed from NWP07 Water Training Package v 3.0 and incorporates previously endorsed qualifications, units of competency and skills sets.

TRAINING PACKAGES, THE AUSTRALIAN QUALIFICATIONS FRAMEWORK AND COMPETENCY STANDARDS

Training Packages

Training Packages:

- specify the qualifications determined by industry groups and when required, by regulatory requirements to be most relevant for employment within the industry
- are developed by the relevant national IRCs in consultation with a range of stakeholders
- are recommended to the Australian Industry and Skills Committee (AISC) for endorsement by the Council of Australian Governments (COAG) Industry and Skills Council
- enable nationally recognised qualifications to be awarded through direct assessment of workplace competencies
- encourage the development and delivery of flexible training to suit individual needs and industry requirements
- support learning, training and assessment in a work-related environment, leading to verifiable workplace outcomes.

The title of each endorsed Training Package is unique and relates to the broad industry coverage of the Training Package.

Each Training Package has a unique national code assigned when the Training Package is endorsed, for example NWP.

Training and assessment using Training Packages must be conducted by a Registered Training Organisation (RTO) that has the qualification/s or specific unit/s of competency on its scope of registration.

New Standards for Registered Training Organisations (RTOs) 2015 came into effect on 1 April 2015 and are located on the [Australian Government ComLaw website](#).

Information about these standards can be found at the:

- [Department of Education, Skills and Employment website](#)
- [Australian Skills Quality Authority](#)

Standards for Training Packages 2012 apply to the design and development of Training Packages for endorsement by the authorising body.

Information about these current standards, including applicable templates, can be found at the Department of Education, Skills and Employment website (<https://www.employment.gov.au/training-packages>).

These templates describe mandatory and optional information that applies to Units of Competency, assessment requirements and qualifications.

Australian Qualifications Framework

The Australian Qualifications Framework (AQF) provides a comprehensive, nationally consistent framework for all qualifications in post-compulsory education and training in Australia. In the Vocational Education and Training (VET) sector the AQF enables national recognition of qualifications and Statements of Attainment.

The NWP National Water Training Package Release 5.0 provides details of the Units of Competency that must be achieved to award AQF qualifications.

The rules around which Units of Competency can be combined to make up a valid AQF qualification are referred to as the packaging rules. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

The packaging rules are defined within each qualification in a Training Package.

Competency Standards

The broad concept of industry competency is the ability to perform particular tasks and duties to the standard of performance expected in the workplace. Competency standards cover all aspects of workplace performance and involve:

- performing individual tasks
- managing a range of different tasks
- responding to contingencies or breakdowns
- dealing with the responsibilities of the workplace, including working with others.

Workplace competency is the ability to apply relevant skills and knowledge consistently over time and in the required workplace situations and environments.

Competency standards are determined by industry to meet industry skill needs and focus on what is expected of a competent individual in the workplace.

AUSTRALIAN QUALIFICATIONS FRAMEWORK QUALIFICATIONS, SKILL SETS AND UNITS OF COMPETENCY IN THE NWP NATIONAL WATER TRAINING PACKAGE

Qualifications

The NWP National Water Training Package provides details of the Units of Competency that must be achieved to award AQF qualifications.

The rules around which Units of Competency can be combined to make up a valid AQF qualification are referred to as the packaging rules. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

Codes and titles

There are mandatory conventions specified in the Standards for Training Packages for the titles and codes used in Training Packages and their components.

QUALIFICATION CODE MANDATORY FIELD	The qualification code contains the three alpha characters identifying the Training Package, a numeric character identifying the AQF level, a two numeric character sequence identifier, and two numeric characters identifying the year the qualification was endorsed. It must comply with the length specified in the AVETMIS Standard.
QUALIFICATION TITLE MANDATORY FIELD	A unique title that reflects the qualification outcome. It must comply with the length specified in the AVETMIS Standard (no more than 100 characters).

Extract from [Standards for Training Packages](#)

Extract from [Training Package Products Policy](#)

The title of each endorsed Training Package qualification is unique. Qualification titles use the following sequence:

- First, the qualification is identified as either Certificate I, Certificate II, Certificate III, Certificate IV, Diploma, Advanced Diploma, Graduate Certificate, or Graduate Diploma
- This is followed by the words 'in' for Certificates I to IV and Graduate Certificate, and 'of' for Diploma, Advanced Diploma and Graduate Diploma
- Then, the industry descriptor, for example Warehousing
- Then, if applicable, the occupational or functional stream in brackets, for example (Track Work)

Each qualification has an eight-character code where the:

- First three characters identify the Training Package
- First number identifies the AQF qualification level
- Second and third numbers identify a qualification's position in the sequence of qualifications at that AQF qualification level
- Fourth and fifth numbers identify the year in which the qualification was endorsed

For example: NWP50118 Diploma of Water Industry Operations

AQF Qualifications in the NWP National Water Training Package

The following AQF qualifications are in the NWP National Water Training Package:

Code	Qualification Title
AQF 1	
N/A	N/A
AQF 2	
NWP20122	Certificate II in Water Industry Operations
AQF 3	
NWP30222	Certificate III in Water Industry Operations
AQF 4	
NWP40120	Certificate IV in Water Industry Operations
AQF 5	
NWP50118	Diploma of Water Industry Operations
AQF 6	
N/A	N/A

Skill Sets

Codes

Skill Sets are single Units of Competency or combinations of Units of Competency from an endorsed Training Package/s that link to a licensing or regulatory requirement or a defined industry need.

Source: [Training Package Products Policy](#)

A Skill Set is awarded with the issuing of a Statement of Attainment.

Each Skill Set has a code that is automatically issued by training.gov.au (TGA) where the:

- First three characters identify the Training Package
- Next two characters indicate that it is a Skill Set
- Numbers identify the Skill Sets' position in the sequence of Skill Sets

For example: NWPSS00002 Catchment Operations Skill Set

Skill Sets in the NWP National Water Training Package

The following Skill Sets are in the NWP National Water Training Package:

Code	Title
NWPSS00001	Advanced certification bridging
NWPSS00002	Catchment operations
NWPSS00003	Certification bridging
NWPSS00004	Dam operations
NWPSS00007	Regional treatment operations
NWPSS00011	Dam Operations and Maintenance Skill Set
NWPSS00012	Environmental Procedures Skill Set
NWPSS00013	Hydrometric Monitoring Basics Skill Set
NWPSS00014	Water Sampling Skill Set
NWPSS00015	Flood Warning Site Operators Skill Set

Units of Competency

Codes and titles

Units of Competency are nationally agreed statements about the skills and knowledge required for effective performance in the workplace. They outline work outcomes as defined by regulatory requirements and agreed by industry.

As such, they identify the skills and knowledge (as outcomes) that contribute to the whole job function – they do not describe how to perform a particular role.

Each Unit of Competency covers a specific work activity, the range of conditions under which the activity is conducted and the foundation skills essential to performance.

The same Unit of Competency (i.e. specific work activity) can be relevant across a range of AQF qualification levels. It is important to check the packaging rules in qualifications to establish how units can apply.

UNIT CODE MANDATORY FIELD	The unit code contains the three alpha characters identifying the Training Package, followed by alpha and/or numeric characters. It must comply with the length specified in the AVETMIS Standard (no more than 12 characters).
UNIT TITLE MANDATORY FIELD	The title concisely describes the unit outcome. It must comply with the length specified in the AVETMIS Standard (no more than 100 characters)

Extract from [Standards for Training Packages](#)

Extract from [Training Package Products Policy](#)

There are mandatory conventions specified in the Standards for Training Packages for the titles and codes used in Training Packages and their components.

The codes are assigned to Units of Competency when the Training Package is endorsed, or when new Units of Competency are added to an existing endorsed Training Package.

Each Unit of Competency has a specific character code where the:

- First three characters identify the Training Package
- Next character/s indicates the competency field
- Numbers identify a unit's position in the sequence of units in the competency field in the Training Package.

For example: NWPCCO001 Analyse and implement network data

Assessment Requirements

Each Unit of Competency has its own assessment requirements that identify the:

- Performance evidence
- Knowledge evidence
- Assessment conditions

TITLE MANDATORY FIELD	Assessment Requirements for [insert Unit of Competency Code and Title]
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The same code is used for the Unit of Competency and its associated assessment requirements.

Units of Competency in the NWP National Water Training Package

The following Units of Competency are in the NWP National Water Training Package:

Code	Unit title
NWPAMG001	Manage asset construction and maintenance
NWPCAD001	Respond to blue-green algae outbreaks
NWPCAD002	Control vegetation on a site
NWPCAD003	Identify and confirm blue-green algae outbreaks
NWPCAD004	Maintain catchment and surrounding areas
NWPCAD005	Monitor, inspect and report catchment areas
NWPCAD006	Monitor and coordinate catchment operations
NWPCAD007	Inspect, operate and maintain low consequence dams

Code	Unit title
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
NWPCAD019	Monitor and operate groundwater extraction
NWPCAD020	Inspect and operate groundwater regulation
NWPCAD021	Coordinate and monitor bulkwater system operations
NWPCAD022	Coordinate and monitor groundwater system usage
NWPCAD023	Develop and implement catchment operations plans
NWPCAD024	Implement dam safety plans
NWPCCO001	Analyse and implement network data
NWPCCO002	Use control centre systems to monitor and control water
NWPGEN006	Implement and manage environmental management policies
NWPGEN016	Interpret and comply with regulatory requirements
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN018	Follow environmental and licensing procedures
NWPGEN019	Assess, implement and report environmental procedures

Code	Unit title
NWPGEN020	Sample and test source or drinking water
NWPGEN021	Sample and test wastewater
NWPGEN022	Perform laboratory testing
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
NWPGEN027	Monitor and operate pump stations
NWPGEN028	Investigate and report breaches of water industry legislation
NWPGEN029	Contribute to the continuous improvement of quality systems
NWPGEN030	Coordinate and monitor the application of environmental plans and procedures
NWPGEN031	Develop an operation plan
NWPGEN032	Ensure compliance with water industry standards guidelines and legislation
NWPGEN033	Sample and test trade wastewater
NWPGEN034	Operate and maintain flood warning sites
NWPHYD002	Apply principles of open channel hydraulics
NWPHYD003	Develop and maintain ratings
NWPHYD004	Plan water resource management
NWPHYD005	Process and report hydrographic time series data
NWPHYD006	Measure discharge and process discharge data using a range of methods and equipment
NWPHYD007	Measure discharge using wading method
NWPHYD008	Operate, maintain and decommission monitoring sites
NWPHYD009	Undertake surveying of monitoring sites
NWPHYS001	Identify and analyse information technology for hydrographic surveys

Code	Unit title
NWPHYS002	Interpret and analyse science principles for hydrographic surveying
NWPHYS003	Manage and analyse water levels and flows
NWPHYS004	Manage hydrographic surveying projects
NWPHYS005	Use alternate positioning systems to gather data
NWPHYS006	Use remote sensing for hydrographic surveying
NWPHYS007	Use underwater acoustics to map waterways
NWPIRR004	Develop and review a groundwater plan
NWPIRR005	Develop and review a surface water plan
NWPIRR006	Develop and review an irrigation system plan
NWPIRR007	Implement and coordinate a surface water plan
NWPIRR008	Implement and coordinate an irrigation delivery system plan
NWPIWS001	Monitor and operate rural irrigation and domestic delivery systems
NWPIWS002	Operate regulating devices in rural irrigation systems
NWPIWS003	Inspect and operate water diversion systems
NWPIWS004	Install meters for rural water supplies
NWPIWS005	Maintain and repair irrigation channels and drains
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
NWPIWS011	Identify and apply water entitlements and delivery processes
NWPIWS012	Monitor and schedule water deliveries
NWPIWS013	Coordinate and monitor surface water systems
NWPIWS014	Coordinate and monitor the operation of irrigation delivery systems

Code	Unit title
NWPNET006	Apply construction principles to civil works in the water industry
NWPNET007	Conduct commissioning and post-commissioning activities
NWPNET008	Develop and manage a drinking water system plan
NWPNET009	Develop and manage a wastewater collection plan
NWPNET010	Develop and manage an alternate water supply plan
NWPNET018	Disinfect network assets
NWPNET019	Prepare and restore worksite
NWPNET028	Monitor and operate network systems
NWPNET029	Locate, identify and protect utilities
NWPNET030	Identify and respond to water quality problems
NWPNET036	Perform leak detection
NWPNET037	Inspect sewer or stormwater assets
NWPNET038	Install metering equipment
NWPNET040	Maintain and repair network assets for wastewater
NWPNET046	Maintain and repair network assets for bulkwater
NWPNET047	Install, maintain and repair hydrants
NWPNET048	Monitor and control vacuum sewer systems
NWPNET049	Construct and install water distribution assets └ NWPNET064 Control electrical risk on network pipes
NWPNET050	Construct and install wastewater collection assets
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
NWPNET055	Coordinate and manage maintenance and repair of network assets

Code	Unit title
NWPNET056	Coordinate and monitor water asset construction
NWPNET057	Establish connections of water and wastewater systems
NWPNET058	Optimise network systems
NWPNET059	Supervise and report on conduit inspections
NWPNET060	Clean networks using air scouring, chemical or swabbing techniques
NWPNET061	Maintain and repair network assets for drinking water
NWPNET062	Maintain network assets using air scouring, chemical or swabbing techniques
NWPNET063	Use digital imaging equipment in the field
NWPNET064	Control electrical risk on network pipes
NWPNET065	Perform odour and infiltration investigations
NWPSOU004	Develop and manage a catchment plan
NWPSOU005	Develop and manage a dam safety inspection plan
NWPSOU006	Develop and manage a flood plan
NWPSOU007	Implement and coordinate a catchment plan
NWPSOU008	Implement and coordinate a groundwater plan
NWPTRD003	Evaluate, implement and monitor high risk trade waste discharge approvals
NWPTRD004	Implement and manage trade waste policies and plans
NWPTRD005	Develop and modify trade waste policies and plans
NWPTRD006	Investigate trade waste incidents and non-compliances
NWPTRD007	Monitor trade waste approvals
NWPTRD008	Process standard trade waste approvals
NWPTRT002	Develop and manage a treatment process monitoring program
NWPTRT003	Develop and manage a wastewater treatment plan
NWPTRT004	Develop and manage a water treatment plan
NWPTRT005	Monitor and operate water treatment processes

Code	Unit title
NWPTRT006	Monitor and operate fluoride addition processes
NWPTRT007	Monitor and operate liquefied chlorine gas disinfection L MSMWHS216 Operate breathing apparatus
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
NWPTRT022	Monitor and operate hypochlorite disinfection processes
NWPTRT023	Monitor and operate ultraviolet processes
NWPTRT024	Operate and control chloramination processes
NWPTRT025	Monitor and operate chlorine dioxide processes
NWPTRT026	Monitor and operate ozone processes
NWPTRT027	Monitor and operate wastewater treatment processes
NWPTRT028	Operate and control reclaimed water irrigation
NWPTRT029	Monitor and operate pre-treatment processes
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

Code	Unit title
NWPTRT040	Operate and control digestion processes
NWPTRT046	Operate and control incineration processes
NWPTRT047	Monitor, operate and control lagoon processes
NWPTRT048	Monitor and operate reclaimed water irrigation
NWPTRT049	Assess and improve activated sludge and biological nutrient removal processes
NWPTRT050	Assess and improve anaerobic digestion systems
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

QUALIFICATION MAPPING INFORMATION

The qualification mapping information maps the NWP National Water Training Package Release 4.3 qualifications to qualifications in the NWP National Water Training Package Release 5.0.

Attachment A: Qualification mapping information

Example Packaging Rules (Certificate III)

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 $\perp$.

Example of Generalist Qualification:

Core (2):

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

General Electives (9 – up to which 2 can be imported):

- BSBADM311 Maintain business resources
- MSS402061 Use SCADA systems in operations
- NWPNET018 Disinfect network assets
- NWPGEN017 Apply the risk management principles of the water industry standards, guidelines and legislation
- NWPGEN022 Perform laboratory testing
- NWPGEN023 Use maps, plans, drawings and details
- NWPGEN024 Identify the role and functions of the water industry
- NWPNET030 Identify and respond to water quality problems
- RIIWHS302D Implement traffic management plan
- TLID2003 Handle dangerous goods/hazardous substances

Example of Specialist Qualification Treatment Water and Wastewater:

Core (2):

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

Specialist Group E (7):

- NWPGEN017 Apply the risk management principles of the water industry standards, guidelines and legislation (must be included in Group E)
- NWPGEN022 Perform laboratory testing (Group F)
- NWPTRT010 Operate and control sedimentation and clarification processes (Group F)
- NWPTRT018 Operate and control ion exchange and softening processes (Group G)
- NWPTRT019 Operate and control granular media filters (Group F)
- NWPTRT024 Operate and control chloramination processes (Group G)
- NWPTRT036 Operate and control activated sludge processes (Group F)

Remaining Units (2 – up to which 2 can be imported)

- BSBOPS303 Organise schedules (Imported from BSB Training Package)
- NWPGEN027 Monitor and operate pump stations (Group D)

Example of Specialist Qualification Networks:

Core (2):

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

Specialist Group D (5):

- NWPGEN027 Monitor and operate pump stations
- NWPNET018 Disinfect network assets
- NWPNET028 Monitor and operate network systems
- NWPNET062 Maintain network assets using high pressure water systems
- NWPNET064 Control electrical risk on network pipes

Remaining Units (4 – up to which 2 can be imported)

- BSBTWK301 Use inclusive work practices (imported from BSB Training Package)
- FNSACC323 Perform financial calculations (imported from FNS Training Package)
- NWPGEN021 Sample and test wastewater (Group F)
- RIICRC314E Handle concrete materials (Group B)

*** the above examples are not intended to represent actual qualifications but to guide in the use of the packaging rules**

SKILL SETS MAPPING INFORMATION

The Skill Sets information maps the NWP National Water Training Package Release 4.3 Skill Sets to Skill Sets in the NWP National Water Training Package Release 5.0.

Attachment B: Skill sets mapping information

UNIT OF COMPETENCY MAPPING INFORMATION

The Unit of Competency information maps the NWP National Water Training Package Release 4.3 Units of Competency to Units of Competency in the NWP National Water Training Package Release 5.0:

Attachment C: Units of Competency mapping information

PREREQUISITE UNITS OF COMPETENCY

There are prerequisite units of competency in the NWP National Water Training Package.

NWPNET049 Construct and install water distribution assets

└ NWPNET064 Control electrical risk on network pipes

NWPTRT007 Monitor and operate liquefied chlorine gas disinfection processes

└ MSMWHS216 Operate breathing apparatus

IMPORTED UNITS AND THEIR PREREQUISITE UNITS

The NWP National Water Training Package includes imported Units of Competency from other Training Packages.

Please check the relevant assessment requirements of the source Training Package by accessing the national training website www.training.gov.au (TGA) or a physical copy regarding any special conditions that may apply to the assessment of imported Units of Competency.

For up-to-date releases of the imported units, refer to www.training.gov.au or the respective SSO.

Up to two of the general elective units may be selected from any relevant nationally endorsed Training Package or accredited course. The general elective units must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with.

Where a prerequisite unit is attached to a unit, it is identified by this symbol L.

Code	Title
AHC - Agriculture, Horticulture and Conservation and Land Management Training Package	
AHCCHM101	Follow basic chemical safety rules
AHCLPW313	Undertake sampling and testing of water
AHCSAW304	Implement erosion and sediment control measures
BSB - Business Services Training Package	
BSBCMM211	Apply communication skills
BSBFIN501	Manage budgets and financial plans
BSBHRM413	Support the learning and development of teams and individuals
BSBINS302	Organise workplace information
BSBLDR414	Lead team effectiveness
BSBLDR522	Manage people performance
BSBOPS203	Deliver a service to customers
BSBOPS304	Deliver and monitor a service to customers

BSBOPS305	Process customer complaints
BSBOPS402	Coordinate business operational plans
BSBOPS404	Implement customer service strategies
BSBOPS502	Manage business operational plans
BSBPPEF202	Plan and apply time management
BSBPPEF301	Organise personal work priorities
BSBPPEF402	Develop personal work priorities
BSBPMG430	Undertake project work
BSBSMB407	Manage a small team
BSBSTR502	Facilitate continuous improvement
BSBTWK201	Work effectively with others
BSBWHS211	Contribute to the health and safety of self and others
BSBWHS307	Apply knowledge of WHS laws in the workplace
BSBWHS308	Participate in WHS hazard identification, risk assessment and risk control processes
BSBWHS309	Contribute effectively to WHS communication and consultation processes
BSBWHS311	Assist with maintaining workplace safety
BSBWHS411	Implement and monitor WHS policies, procedures and programs
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

BSBWHS504	Manage WHS risks
BSBWHS513	Lead WHS risk management
BSBWHS515	Lead initial response to and investigate WHS incidents
BSBWHS521	Ensure a safe workplace for a work area
BSBWHS522	Manage WHS consultation and participation processes
BSBWRT411	Write complex documents
BSBXBD403	Analyse big data
BSBXBD404	Use big data for operational decision making
BSBXC401	Apply communication strategies in the workplace
BSBXTW401	Lead and facilitate a team
CHC - Community Services	
CHCCOM003	Develop workplace communication strategies
CPC - Construction, Plumbing and Services Training Package	
CPCCCM2004	Handle construction materials └ CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.
CPCCCM3005	Calculate costs of construction work
CPCCDE3014	Remove non-friable asbestos └ CPCCWHS1001 Prepare to work safely in the construction industry
CPCCDE3015	Remove friable asbestos └ CPCCWHS1001 Prepare to work safely in the construction industry └ CPCCDE3014 Remove non-friable asbestos
CPCCDE4008	Supervise asbestos removal └ CPCCDE3014 Remove non-friable asbestos, and/or └ CPCCDE3015 Remove friable asbestos
CPCCLDG3001	Licence to perform dogging
CPCCOM1015	Carry out measurements and calculations

CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry
CPCPPS5024	Conduct a water audit and identify water-saving initiatives
CPCWHS1001	Prepare to work safely in the construction industry
CPP - Property Services Training Package	
CPPHES4006	Assess household water use and efficiency improvements
CPPSSI4022	Store and retrieve spatial data
CPPSSI5032	Capture new spatial data
CPPSSI5040	Source, collate and interpret spatial data
FSK - Foundation Skills Training Package	
FSKDIG003	Use digital technology for non-routine workplace tasks
FSKNUM021	Apply an expanding range of arithmetical calculations for work
FSKNUM027	Collect, organise and interpret statistical data for work
FWP - Forest and Wood Products Training Package	
FWPCOT2256	Trim and cut felled trees
LGA04 - Local Government Training Package	
LGAWORK501A	Prepare preliminary design for operational works
MSL - Laboratory Operations	
MSL904002	Perform standard calibrations
MSL922001	Record and present data
MSL924003	Process and interpret data
MSL936004	Conduct an internal audit of the quality system
MSL976005	Evaluate and select appropriate test methods and/or procedures
MSM - Manufacturing Training Package	

MSMWHS216	Operate breathing apparatus
MSS - Sustainability	
MSS024019	Collect and evaluate meteorological data
MSS025021	Collect and evaluate groundwater data
MSS402061	Use SCADA systems in operations
MSS404061	Facilitate the use of SCADA systems in a team or work area
MSS404086	Assist in implementing a proactive maintenance strategy
MSS405081	Develop a proactive maintenance strategy
PMA - Chemical, Hydrocarbons and Refining	
PMAOMIR512	Establish incident response preparedness and response systems
PMAOPS330	Communicate and monitor pipeline activities
PMB - Plastics, Rubber and Cabling	
PMBWELD301E	Join polyethylene plastic pipelines using butt welding
PMBWELD302E	Join polyethylene plastic pipelines using electrofusion welding
PMBWELD305E	Install polyethylene plastic pipelines for pressurised applications
PMBWELD308E	Install PVC plastic pipelines for pressurised applications
PSP - Public Sector Training Package	
PSPPCM011	Plan to manage a contract
PUA - Public Safety	
PUAEMR007	Develop emergency management plans
RII - Resources and Infrastructure Industry Training Package	
RIICBS310E	Conduct patching operations
RIICCM205F	Carry out manual excavation
RIICCM207E	Spread and compact materials manually

RIICCM208E	Carry out basic levelling
RIICCM209E	Carry out concrete work
RIICCM210E	Install trench support
RIICCM211E	Construct and dismantle fences and gates
RIICOM201E	Communicate in the workplace
RIICPL302E	Install stormwater systems
RIICPL304E	Install pre-cast gully pits
RIICPL305E	Install pre-cast access chambers
RIICRC202E	Install signs
RIICRC301E	Maintain drainage systems
RIICRC303E	Lay pavers
RIICRC314E	Handle concrete materials
RIICRC315E	Use concreting materials 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
RIICWM501E	Implement civil construction plans
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

RIISAM601D	Establish and maintain plant, equipment and infrastructure maintenance system
RIIWHS201E	Work safely and follow WHS policies and procedures
RIIWHS202E	Enter and work in confined spaces
RIIWHS204E	Work safely at heights
RIIWHS302E	Implement traffic management plans
RIIWMG203E	Drain and dewater civil construction sites
TAE - Training and Education Training Package	
TAEASS301	Contribute to assessment
TAEDEL301	Provide work skill instruction
TAEDEL402	Plan, organise and facilitate learning in the workplace
TAEDEL404	Mentor in the workplace
TLI - Transport and Logistics Training Package	
TLID0021	Store and handle dangerous goods and hazardous substances
TLIF2010	Apply fatigue management strategies
TLIF4014	Develop and maintain a safe workplace
TLIL4059	Implement asset management systems
TLILIC0023	Licence to operate a slewing mobile crane (up to 60 tonnes)
TLIR5005	Manage a contract
TLIX4027	Assess maintenance spares and manage repairable items
UEE - Electrotechnology Training Package	
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEERE0019	Maintain safety and tidiness of remote area power supply systems L UEECD0007 Apply work health and safety regulations, codes and practices

	in the workplace ↳ UEERE0023 Work safely with remote area power supply systems
UEERE0023	Work safely with remote area power supply systems ↳ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEP - Electricity Supply Industry - Generation Sector Training Package	
UEPOPS347	Operate and monitor supervisory, control and data acquisition systems
UEPOPS423	Plan a scheduled outage

KEY WORK AND TRAINING REQUIREMENTS IN THE INDUSTRY

This Training Package incorporates specific pathways from entry level to management levels within the water industry. The qualifications and Units of Competency are designed to reflect industry needs whilst supporting enterprises and employees to have the skills and knowledge required to competently perform their roles. It addresses multiple sectors within the water industry that have been identified.

Within the NWP National Water Training Package, reviews of the qualifications and Units of Competency will incorporate technological innovation being employed in the water industry.

These will have far-reaching effects, changing the way water is delivered to highly urbanised regions, commercial zones and rural locations.

The use of advanced autonomous systems and modelling, including Geographic-Information Systems (GIS) and machine learning, have had a positive effect on the water industry. These technologies have enabled water supply, metering, treatment and infrastructure maintenance companies with methods to improve their operations. These include detecting leaks in network supply pipes, defective sewer systems, sewer choke points, automating wastewater treatment processing, and processing remote water treatment aided by solar power and battery packs. By utilising automated processes, water companies can identify areas of required preventative maintenance.

The onset of automation in water operations and delivery is anticipated to have a significant impact on the industry and the skill requirements of the workforce. Retraining and up-skilling will be needed to ensure the workforce can have access to the skills required to keep pace with new technologies and improve water utility efficiency.

Remote monitoring of water assets, condition assessments and efficiency checks are becoming commonplace in the industry. Drones and remote surveying devices are changing the way waterways and water assets are monitored and managed. Their use in the industry is highly effective in providing accurate location-based repair sites and areas of interest, substantially reducing work health and safety (WHS) concerns related to the risk posed by manual inspections of elevated and high-risk assets. These new systems and remote operations require highly specialised skills to monitor, diagnose and interpret large volumes of data to determine faults and identify areas for investigation.

The advent of the Internet of Things, the ever-increasingly miniaturised sensors and internet connected devices, will greatly alter the way water is managed. As this technology becomes embedded in the water industry, emphasis will be placed on automatic metering, data management, network transmission and higher-resolution data points. This will enable increased accuracy of water asset management and industry operations. Catchment management solutions are requiring new approaches to manage water supply effectively and accurately. Increasingly, workers are required to interact with new technological devices and operating systems. Data capture and remote system operations via tablets and smart phones is increasing at water treatment plants and in the field when assessing network issues. On this basis, digital literacy will

be important for the water industry as they seek appropriately trained staff to work with new technologies. These technological changes will increase the demand for specialist skills, including:

- digital literacy in the workplace
- data analysis and data literacy
- network security
- higher-order skills incorporating creative, critical thinking and problem solving
- interpersonal communication skills.

The industry will need to be able to adapt, and provide support to the existing workforce, by upskilling and retraining, to maximise productivity.

Big Data, the ever-increasingly large volume of data being captured by sensors and subject to analysis, is further transforming the management of water assets and supply in Australia. Examples include the collection of data from pumping stations (including energy use), water treatment plants, sewage plants and reservoirs to manage operations remotely. This information is also highly valuable for research and planning. Analysing real-time demand will provide opportunities to increase performance and will aid efficiencies by diagnosing and reducing faults and waste/leakage along the network. The use of Big Data will enable the advanced systems to assist with real-time operations, decision-making, and provide improved customer service relationships, providing accurate water usage statistics over time to customers. It will also be used to optimise the urban and rural water services, settings and safety management systems.

The ongoing development of new water infrastructure, maintenance and upkeep has implications for the workforce. Companies are seeking appropriately skilled labour and management skills for these projects. Water security and the implementation of new approaches, such as Integrated Urban Water Management (IUWM) and Water Sensitive Urban Design (WSUD), are also areas of interest to provide reliability to supply and manage water assets in high-density urbanised areas.

With increasing demand for water, the industry is investigating new means to supply water from alternative sources. Water supply from alternative sources include recycled water, seawater desalination, stormwater harvesting, greywater, wastewater systems and utilising geothermal water for agriculture. Regulatory frameworks have been developed to ensure these treatment methods meet the safety requirements of drinking water quality. However, not every state and territory have a consistent approach to validate the technologies employed. Developing unified approaches to these standards will enable a skilled workforce that is able to deliver services in states and territories, irrespective of the location of training.

The industry acknowledges the critical impact of climate change and drought and is revising water demand models, focussing on assets and solution-based strategies to mitigate these issues. An industry-led focus on the planning, development and forecasting of skills to ensure the stable and reliable supply of water across Australia to meet the demands and challenges anticipated in the future. This will help ensure the skill needs of the workforce are meeting the demands and challenges anticipated in the future.

Water companies may need to look at how they promote careers in the industry, particularly in entry-level roles, where there is a high turnover. Making the industry an attractive and rewarding place to work is needed, to further secure the viability of the industry.

The digitalisation of operations to improve services delivered corresponds with a need to increase the digital skills available in the workplace. The incorporation of drone technology, system operations, smart meters and other digital innovations has altered the methods used to oversee water assets; thereby having an impact on risk management policies. As these technologies continue to thrive in the industry, it will be necessary to prepare the workforce accordingly.

REGULATION AND LICENSING IMPLICATIONS FOR IMPLEMENTATION

Federal and state/territory governments have increased the regulation and reporting requirements for water utilities. These changes ensure the delivery of reliable water to the public while minimising the effects on the surrounding environment.

There are currently water industry operator certification requirements that utilise the NWP National Water Training Package. This is currently administered by Water Industry Operators Association (WIOA).

The requirements for certification vary from state to state and the specific role of the individual at treatment plants.

Regulatory harmonisation across states/territories should be worked towards, ensuring the safe handling of water resources in a consistent approach nation-wide.

Licensing/regulatory authorities across Australia have actively participated in the development of this Training Package. This Training Package contains a number of Units of Competency packaged in various Skill Sets and qualifications aligning to operator certification requirements. Operator certification requirements vary between states and territories and may change from time to time.

Each Unit of Competency, Skill Set or qualification in this Training Package identifies where regulation and/or licensing apply by using an appropriate statement such as:

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

People employed in the water industry need to fulfil competency and training requirements as detailed in the regulatory requirements relevant to their occupation.

IMPLEMENTATION INFORMATION

WATER TRAINING PACKAGE AND SELECTION OF TRAINING PATHWAYS

Pathways define a sequence of learning or experience that can be followed to attain competency and describe the way in which training and assessment is undertaken in an education or training program. They are **not mandatory** and may vary depending on the qualification or training program, the needs of the individual and the enterprise.

The Training Package is flexible and pathways can be constructed to align with individual requirements and business needs. RTOs can work with their clients to apply the flexibility available in the packaging rules to ensure ‘fit for purpose outcomes’.

INDUSTRY SECTORS AND OCCUPATIONAL OUTCOMES OF QUALIFICATIONS

The NWP National Water Training Package comprises 4 qualifications, 10 Skill Sets, and 169 Units of Competency and associated assessment requirements and covers:

- catchment and dams
- data management
- drainage services
- hydrographic survey
- hydrology
- hydrometric monitoring
- infrastructure
- irrigation
- irrigation water supply
- leadership
- maintenance
- networks
- sewerage
- sources of water
- supply
- wastewater treatment
- water treatment

Industry Occupations Guide

NWP20122 Certificate II in Water Industry Operations	Wastewater or Water Plant Operator Bore Field Operator, Maintenance Assistant (Water Industry), Assistant Networks Operator, Assistant Groundwater Extraction Operator (Groundwater Operator), Assistant Operator (water treatment), Groundwater Extraction Operator, Stormwater, Drainage and Sewerage Labourer, Wastewater Collection System Operator
NWP30222 Certificate III in Water Industry Operations	Farm, Forestry and Garden Workers Maintenance Officer (irrigation), Channel Automation Technician, Field Officers (irrigation), Planner (irrigation), Groundwater & River Officer, Diversions Officer (water), Maintenance Supervisor (irrigation) Wastewater or Water Plant Operator Dams Safety Surveillance Officer, Bulkwater Operator, Pipelayer, Dams Operator, Assistant Dams Officer (Surface Water Operator), Maintenance Assistant (Water Industry), Catchment Operator (Compliance and Enforcement), Drainlayer, River Operator, Hydrometric Monitoring Assistant, Assistant Hydrographer, Water Services Officer, Catchment Ranger, Water Compliance Manager, Diversions Officer (water), Wastewater Collection System Operator, Reservoir Operator, Catchment Operator (Land Management), Networks Operator, Catchment Operator (Technical), Maintenance Operator (Water Industry), Water Treatment Technologist, Water Operator
NWP40120 Certificate IV in Water Industry Operations	Wastewater or Water Plant Operator Networks Supervisor, Hydrographer, Work Planner (water), Trade Waste Officer, Hydrometric Monitoring Officer, Section Coordinator (irrigation), Salinity Interception Officer, Supervisor (Source), Groundwater Extraction Coordinator, Reticulation Coordinator, Dam Safety Instrumentation Specialist, Dams Operations Coordinator, Water Treatment Supervisor, Water Treatment Plant Supervisor, Water Treatment Technologist
NWP50118 Diploma of Water Industry Operations	Earth Science Technician Manager, Recycling Coordinator (Water Industry), Trade Waste Supervisor, Senior Hydrographer, Hydrographic Surveyor, Wastewater Treatment Coordinator, Hydrometric Monitoring Officer, Water Treatment Coordinator, Wastewater Treatment Manager, Senior Instrument Technician

The Industry Occupations Guide below includes occupations covered by the NWP National Water Training Package Release 5.0:

- Assistant Hydrographer
- Assistant Dams Officer (Surface Water Operator)
- Bulkwater Operator
- Catchment Operator (Compliance and Enforcement)
- Catchment Operator (Land Management)
- Catchment Operator (Technical)
- Catchment Ranger
- Channel Automation Technician
- Dams Operations Coordinator
- Dams Operator
- Dam Safety Instrumentation Specialist
- Dams Safety Surveillance Officer
- Diversions Officer (water)
- Drainlayer
- Field Officers (irrigation)
- Groundwater Extraction Coordinator
- Groundwater & River Officer
- Hydrographer
- Hydrometric Monitoring Assistant
- Hydrometric Monitoring Officer
- Maintenance Assistant (Water Industry)
- Maintenance Officer (Irrigation)
- Maintenance Operator (Water Industry)
- Maintenance Supervisor (Irrigation)
- Networks Operator
- Networks Supervisor
- Pipelayer
- Planner (Irrigation)
- Recycling Coordinator (Water Industry)
- Reservoir Operator
- Reticulation Coordinator
- River Operator
- Salinity Interception Officer
- Section Coordinator (Irrigation)
- Senior Hydrographer
- Senior Instrument Technician
- Service Manager (Irrigation)
- Supervisor (Source)
- Trade Waste Officer
- Trade Waste Supervisor
- Wastewater Collection System Operator
- Wastewater Treatment Coordinator
- Wastewater Treatment Manager
- Water Compliance Manager
- Water Operator
- Water Services Officer
- Water Treatment Coordinator
- Water Treatment Plant Supervisor
- Water Treatment Supervisor
- Water Treatment Technologist
- Work Planner (water)

QUALIFICATIONS ENTRY REQUIREMENTS

There are no entry requirements for NWP National Water Training Package qualifications.

Entry requirements are the knowledge, skills or experience required to enter a qualification. They may be expressed as Units of Competency, qualifications or vocational outcomes and **must** be demonstrated prior to commencing the qualification.

PATHWAYS ADVICE

Attachment E provides sector and qualification pathways guidance. Information about specific pathways relevant to qualifications in the Training Package is best provided by RTOs delivering the qualifications and state/territory advisory bodies.

Qualifications in the NWP National Water Training Package are suitable for delivery via an Australian Apprenticeship pathway.

The [Australian Apprenticeships website](#) offers information about traineeships and apprenticeships and includes links to State and Territory Training Authorities (STAs) that monitor provision.

VET in Schools programs are packaged and delivered in a variety of ways across Australia. However, it is highly recommended that schools work together in partnership with an RTO where qualifications or Skill Sets result in strong transferable skills relevant to the needs of the individual and commercial enterprises.

The following qualification has been identified as being suitable for VET in Schools:

- NWP20122 Certificate II in Water Industry Operations

Credit transfer arrangements between qualifications in this Training Package and higher education qualifications are encouraged between providers but no national credit arrangements exist at this time. AIS will continue to investigate and publicise examples of practical credit transfer models as they are applied.

[Attachment E: NWP National Water Training Package pathways advice](#)

ACCESS AND EQUITY

Good vocational education and training, and assessment include making adjustments to meet the learning and assessment needs of individuals. An open mind, common sense and tailoring training and assessment to individual circumstances should ensure individuals achieve the standards employers and RTOs expect.

Adjustments can be made to assist learners to access and participate in vocational education and training. Adjustments are reasonable if they achieve this purpose and take into account factors such as the nature of the learner's ability and disability, the views of the learner, the potential effect of the adjustment on the learner and others, and the costs and benefits of making the adjustment.

Reasonable adjustments need only be that – reasonable. It is about identifying what adjustments might reasonably be made and how they may be put into place.

Assessment processes and techniques should be modified for distance-based learners, be culturally appropriate and suitable to the communication skill level, language, literacy and numeracy capacity of the candidate and the work being performed.

An individual's access to the assessment process should not be adversely affected by restrictions placed on the location or context of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

FOUNDATION SKILLS

Language, literacy and numeracy skills can make the difference between whether or not someone succeeds in training and at work. These important skills are now called ‘core skills’ or ‘foundation skills’ because they are at the core of – or the foundation to – other more specific technical skills.

All Units of Competency in NWP National Water Training Packages clearly describe the foundation skills that are essential to performance in the elements and performance criteria of the unit.

There is a distinction between ‘core skills’ and ‘foundation skills’ in Training Packages, which can be summarised as follows:

- **Core skills** are those described in the ACSF: learning, numeracy, oral communication (speaking and listening), reading and writing.
- **Foundation skills** is the term that the Australian Government uses in a number of different contexts, including vocational units of competency, to capture language, literacy and numeracy skills and employment skills.

In the NWP National Water Training Package, foundation skills are explicit in the performance criteria in each Unit of Competency.

This is achieved with the use of key words or phrases to indicate foundation skills that are essential to performance. It is important to note that foundation skills may not have the same meaning in every instance and do need to be considered in the relevant job context.

The significance of each of these skills will also vary in respect to job roles and the strengths of individuals. It is important for users of the Training Package to contextualise relevant foundation skills identified in Units of Competency and assessment criteria.

FSK Foundation Skills Training Package

The FSK Foundation Skills Training Package allows RTOs to choose and deliver foundation skills units, qualifications and Skill Sets that will enable learners to build the specific foundation skills they need to achieve vocational competency.

Foundation skills units provide additional information about the types of language, literacy and numeracy skills that are needed to meet the requirements of vocational units.

The Training Package can be downloaded from www.training.gov.au.

HEALTH AND SAFETY IMPLICATIONS IN THE INDUSTRY

Work health and safety (WHS)/occupational health and safety (OHS) and occupational safety and health (OSH) has been used in Units of Competency to refer to the relevant legislation. As not all

jurisdictions have implemented the Model Work Health and Safety (WHS) Act the combined term is used to recognise that either the national model or existing state instrument will apply, as specified by the relevant regulatory authority.

- In the following jurisdictions where the Work Health and Safety Act has been implemented, (NSW, QLD, SA, ACT, NT, TAS) RTOs are advised to contextualise the Unit of Competency by referring to these legislative requirements.
- In Western Australia where the Occupational Safety and Health Act has been implemented RTOs are advised to contextualise the Unit of Competency by referring to these legislative requirements.
- In Victoria where the Occupational Health and Safety Act has been implemented RTOs are advised to contextualise the Unit of Competency by referring to these legislative requirements.

RESOURCES AND EQUIPMENT RELEVANT TO THE TRAINING PACKAGE

The assessment requirements relevant to each Unit of Competency refer to the relevant resources and equipment required for assessment.

Where a specific vehicle or piece of equipment is referred to, it must be used in the relevant assessment.

In particular, for assessment, access is required to:

- relevant and appropriate materials, tools, facilities, equipment and personal protective equipment (PPE) currently used in industry
- applicable relevant documentation, including workplace procedures, industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Specific assessment requirements and strategies are defined in the relevant unit where applicable.

RTOs can only conduct training and/or assessment of the qualifications and/or Units of Competency in this Training Package provided they are covered by their Scope of Registration.

The assessment requirements for each Unit of Competency specify the relevant resources and equipment required to achieve the vocational outcomes of the NWP National Water Training Package.

LEGAL CONSIDERATIONS FOR LEARNERS IN THE WORKPLACE/ON PLACEMENTS

Legal requirements that apply to specific industries and VET vary across each state and territory, and the commonwealth, and can change.

Contact relevant state/territory and commonwealth departments to determine specific legal requirements.

IMPLEMENTATION ADVICE

The Implementation Advice Table provides non-essential industry specified advice on resources, definitions and conditions that may be relevant for assessment of a Unit of Competency.

The Implementation Advice Table can be found in [Attachment F](#).

SUPPORTING LEARNER TRANSITION BETWEEN EDUCATION SECTORS

Qualifications are being reviewed to ensure flexibility of transition of workers between the industry sectors.

LINKS

Companion Volume Implementation Guide (CVIG) for NWP National Water Training Package.

ATTACHMENT A: QUALIFICATION MAPPING

A downloadable version of this mapping information can be found in the NWP CVIG Mapping Information [Attachments A-C](#) on VETNet.

Training Package Release	Code	Title	Usage	Qual Release	Mapping	E/NE/NC/D	Comment
1	NWP20115	Certificate II in Water Industry Operations	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP30215	Certificate III in Water Industry Operations	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP30315	Certificate III in Water Industry Treatment	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP30415	Certificate III in Water Industry Irrigation	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP40515	Certificate IV in Water Industry Operations	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP40615	Certificate IV in Water Industry Treatment	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.
1	NWP50715	Diploma of Water Industry Operations	Current	1	New qualification	NC	New qualification. Streams developed to better reflect occupational outcomes.

2	NWP50118	Diploma of Water Industry Operations	Current	1	NWP50715 Diploma of Water Industry Operations	NE	Specialist occupational groups Added: Asset Management (AMG) Control Centre Operations (CCO) Hydrographic Survey (HYS) Renamed: Hydrography to Hydrology (HYD) Networks, Source split to create two separate groups Removed: Work health safety NWPGEN002 Ensure compliance with water industry guidelines, standards and legislation NWPGEN006 Implement and manage environmental management policies, plan, procedures and programs Core units replaced with: NWPXXX999 Interpret and comply with regulatory requirements TLIF4014 Develop and maintain a safe workplace Performance Evidence and Knowledge Evidence all units Sorted alphabetically
2	NWP50715	Diploma of Water Industry Operations	Superseded	1	Superseded by NWP50118 Diploma of Water Industry Operations	NE	Superseded qualification
3	NWP20119	Certificate II in Water Industry Operations	Current	1	NWP20115 Certificate II in Water Industry Operations.	E	Specialist occupational groups removed Core unit removed: NWPGEN001 Apply the risk management principles of the water industry standards, guidelines and legislation Core unit reviewed and renamed: NWPGEN003 Apply the environmental and licensing procedures of the water industry to NWPGEN018 Follow environmental and licensing procedures Core unit added: BSBWHS201 Contribute to health and safety of self and others All general elective units reviewed and listed alphabetically
3	NWP20115	Certificate II in Water Industry Operations	Superseded	1	Superseded by NWP20119 Certificate II in Water Industry Operations	E	Superseded qualification

3	NWP30219	Certificate III in Water Industry Operations	Current	1	NWP30215 Certificate III in Water Industry Operations, NWP30315 Certificate III in Water Industry Treatment or NWP30415 Certificate III in Water Industry Irrigation.	E	Specialist occupational group added: Treatment: Water & Wastewater Specialist occupational groups renamed: Source to Catchment and Dams (CAD) Construction to Civil Construction Irrigation to Irrigation Water Supply (IWS) Drinking Water to Water Treatment Wastewater to Wastewater Treatment Specialist occupational group removed: Hydrography Core units changed Units in specialist groupings reviewed for currency and relevancy and listed alphabetically
3	NWP30215	Certificate III in Water Industry Operations	Superseded	1	Superseded by NWP30219 Certificate III in Water Industry Operations	E	Superseded qualification
3	NWP30315	Certificate III in Water Industry Treatment	Superseded	1	Superseded by NWP30219 Certificate III in Water Industry Operations	E	Superseded qualification
3	NWP30415	Certificate III in Water Industry Irrigation	Superseded	1	Superseded by NWP30219 Certificate III in Water Industry Operations	E	Superseded qualification
3	NWP40515	Certificate IV in Water Industry Operations	Current	2	New qualification	NC	Unit codes updated only.
3	NWP40615	Certificate IV in Water Industry Treatment	Current	2	New qualification	NC	Unit codes updated only.
3	NWP50118	Diploma of Water Industry Operations	Current	2	NWP50715 Diploma of Water Industry Operations	NE	Unit codes updated Changed name of Hydrology Specialisation to Hydrometric Monitoring
4	NWP20119	Certificate II in Water Industry Operations	Current	2	NWP20115 Certificate II in Water Industry Operations	E	Elective units - Updated imported units to reflect current assessment requirements (BSBCUS201, BSBWHS301, BSBWOR202, CPCCDE3014, CPCCOM1015, FSKDIG03, RIICOM201D, RIISAM204D, RIIWHS201D, RIIWHS202D, RIIWHS302D, UEENEEE101A, UEERE0019 & UEERE0023).

4	NWP30219	Certificate III in Water Industry Operations	Current	2	NWP30215 Certificate III in Water Industry Operations, NWP30315 Certificate III in Water Industry Treatment or NWP30415 Certificate III in Water Industry Irrigation	E	Elective units - Updated imported units to reflect current assessment requirements (BSBCMM301, BSBCUS301, BSBINM301, BSBWHS301, BSBWOR301, CPCCBC4051A, CPCCCM1015, CPCCDE3014A, CPCPPS5024A, CPPHSA4003A, FSKNUM21, RIIRIS202D, RIICBS310D, RIISAM203D, RIISAM204D, RIWHS202D, RIWHS302D & RIWHS204D). One or more units added or deleted from elective groups
4	NWP40120	Certificate IV in Water Industry Operations	Current	1	NWP40515 Certificate IV in Water Industry Operations. NWP40615 Certificate IV in Water Industry Treatment	E	Qualification Description - reworded to reflect job role outcomes. Packaging Rules - updated to reflect job role outcomes. Core units - updated to reflect job role outcomes. Elective units - Specialist groups removed: Work health safety (skills moved to Core)Sampling and testing (dispersed throughout qualification as required) Networks specialist group changes: BSBWOR404 moved to Core; BSBWOR404 recoded to BSBPEF402; NWPGEN015 moved to General Electives; NWPHYD014 and NWPIRR033 removed from group NWPIRR035 removed from qualification Source specialist group changes: Specialist name changed to Catchment and Dams (CAD); BSBMGT402 & BSBSMB407 moved to General Electives; BSBMGT402 recoded to BSBOPS402; BSBSMB407 recoded to BSBLDR414 Hydrography specialist group changes: Specialist name changed to Hydrometric Monitoring (HYD) Irrigation specialist group changes: Specialist name changed to Irrigation Water Supply (IWS); NWPIRR035 removed from qualification; NWPNET033 removed from group Trade waste specialist group changes: NWPTRD024 removed from group and recoded as a Networks unit Drinking water and Wastewater specialist group changes: Merged and renamed Treatment; MSS404061, NWPTRT060, NWPTRT067 & NWPTRT063 added to group General elective units group changes: updated to reflect job role outcomes. One or more units added or deleted from elective groups

4	NWP40515	Certificate IV in Water Industry Operations	Superseded	2	Superseded by NWP40120 Certificate IV in Water Industry Operations	E	Superseded Qualification
4	NWP40615	Certificate IV in Water Industry Treatment	Superseded	2	Superseded by NWP40120 Certificate IV in Water Industry Operations	E	
4	NWP50118	Diploma of Water Industry Operations	Current	3	NWP50715 Diploma of Water Industry Operations	NE	Elective units - This is the second release of this qualification in NWP National Water Training Package with updated imported units to reflect current assessment requirements (AHCLPW306, BSBFIM501, BSBLED401, BSBMGT502, BSBMGT516, BSBMGT517, BSBPMG522, BSBWRT401, CPPSIS4022, CPPSIS5032 & CPPSIS5040).
4.1	NWP30219	Certificate III in Water Industry Operations	Current	3	NWP30215 Certificate III in Water Industry Operations, NWP30315 Certificate III in Water Industry Treatment or NWP30415 Certificate III in Water Industry Irrigation	E	Typographical error corrected.
4.1	NWP50118	Diploma of Water Industry Operations	Current	4	NWP50715 Diploma of Water Industry Operations	NE	Typographical error corrected.
4.2	NWP30219	Certificate III in Water Industry Operations	Current	4	NWP30215 Certificate III in Water Industry Operations, NWP30315 Certificate III in Water Industry Treatment or NWP30415 Certificate III in Water Industry Irrigation	E	Imported unit RIICRC323E deleted due to zero enrolments
5	NWP20122	Certificate II in Water Industry Operations	Current	1	NWP20119 Certificate II in Water Industry Operations.	E	Core units - Unit BSBWHS201 updated to current version. Elective units - Units BSBCMM201, RIICCM205E & TLID2003 updated to current version. Unit MSMWJ201 removed. Unit NWPNET060, NWPNET062 & NWPNET063 added.
5	NWP30222	Certificate III in Water Industry Operations	Current	1	NWP30219 Certificate III in Water Industry Operations.	E	Elective units - Imported units updated to current codes New units added NWPGEN034, NWPNET060, NWPNET062 & NWPNET063.
5	NWP20119	Certificate II in Water Industry Operations	Superseded	2	Superseded by NWP20122 Certificate II in Water Industry Operations	E	Superseded Qualification
5	NWP30219	Certificate III in Water Industry Operations	Superseded	4	Superseded by NWP30222 Certificate III in Water Industry Operations	E	Superseded Qualification

ATTACHMENT B: SKILL SETS MAPPING

A downloadable version of this mapping information can be found in the NWP CVIG Mapping Information [Attachments A-C](#) on VETNet.

Training Package Release	Code	Title	Usage	Skill Set Release	Mapping	E/NE/NC/D	Comment
1	NWPSS00001	Advanced certification bridging	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00002	Catchment operations	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00003	Certification bridging	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00004	Dam operations	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00005	Hydrography basics	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00006	Infrastructure operations and maintenance	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00007	Regional treatment operations	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00008	Water quality monitoring	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00009	Water resources management	Current	1	New Skill Set	NC	New skill set composed of existing units.
1	NWPSS00010	Water sampling	Current	1	New Skill Set	NC	New skill set composed of existing units.
3	NWPSS00001	Advanced Certification Bridging Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00002	Catchment Operations Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00003	Certification Bridging Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00004	Dam Operations Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00006	Infrastructure Operations and Maintenance Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00007	Regional Treatment Operations Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00008	Water Quality Monitoring Skill Set	Current	2	New Skill Set	NC	Unit codes updated
3	NWPSS00010	Water Sampling Skill Set	Current	2	New Skill Set	NC	Unit codes updated

4	NWPSS00002	Catchment Operations Skill Set	Current	3	New	NC	Title - changed to add Skill Set to end of title. Pathway Information - This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations. Skill Set Requirements - equivalent units updated in line with job function. One or more units updated in unit bank.
4	NWPSS00011	Dam Operations and Maintenance Skill Set	Current	1	New	NC	New Skill Set
4	NWPSS00012	Environmental Procedures Skill Set	Current	1	NWPSS00008 Water quality monitoring	E	Title - changed to reflect job role outcomes. Skill Set Requirements - equivalent units updated in line with job function. One or more units updated in unit bank.
4	NWPSS00008	Water quality monitoring	Superseded	2	Superseded by NWPSS00012 Environmental Procedures Skill Set	E	Superseded Skill Set
4	NWPSS00013	Hydrometric Monitoring Basics Skill Set	Current	1	NWPSS00005 Hydrography basics	E	Title - changed to reflect job role outcomes. Pathway Information - This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations. Skill Set Requirements - equivalent units updated in line with job function. One or more units updated in unit bank.
4	NWPSS00005	Hydrography basics	Superseded	1	Superseded by NWPSS00013 Hydrometric Monitoring Basics Skill Set	E	Superseded Skill Set
4	NWPSS00014	Water Sampling Skill Set	Current	1	NWPSS00010 Water sampling	E	Title - changed to add Skill Set to end of title. Pathway Information - This Skill Set can be a pathway to NWP30219 Certificate III in Water Industry Operations. Skill Set Requirements - equivalent units updated and one unit with duplicated skills removed in line with job function One or more units updated in unit bank.

4	NWPSS00010	Water sampling	Superseded	1	Superseded by NWPSS00014 Water Sampling Skill Set	E	Superseded Skill Set
4	NWPSS00006	Infrastructure operations and maintenance	Deleted	2	New Skill Set	D	Deleted unit
4	NWPSS00009	Water resources management	Deleted	1	New Skill Set	D	Deleted unit
4.1	NWPSS00013	Hydrometric Monitoring Basics Skill Set	Current	2	NWPSS00005 Hydrography basics	E	Typographical error corrected.
5	NWPSS00015	Flood Warning Site Operators Skill Set	Current	1	New Skill Set	NC	New Skill Set

ATTACHMENT C: UNITS OF COMPETENCY MAPPING

A downloadable version of this mapping information can be found in the NWP CVIG Mapping Information [Attachments A-C](#) on VETNet.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPGEN003	Apply environmental and licensing procedures of the water industry	Current	1	NWP202B - Apply environmental and licensing procedures	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN013	Apply principles of chemistry to water systems and processes	Current	1	NWP404A - Apply principles of chemistry to water systems and processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPHYD001	Apply principles of open channel hydraulics	Current	1	NWP508A - Apply principles of hydraulics to pipe and channel flow	NC	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. All Elements and PC revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN001	Apply the risk management principles of the water industry	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP279.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
		standards, guidelines and legislation					
1	NWPTRT084	Assess and improve activated sludge and nutrient removal processes	Current	1	NWP412A - Investigate and plan the optimisation of activated sludge processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 1 & 2 merged and all PC renumbered. Element 3 removed. One new Element added. PC 4.1 and 4.2 removed, PC 4.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT093	Assess and improve anaerobic digestion processes	Current	1	NWP413A - Investigate and plan the optimisation of anaerobic treatment processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added to Element 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT011	Assess and improve chemical dosing process	Current	1	NWP409A - Investigate and plan to optimise the operation of chemical addition processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 1 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT045	Assess and improve desalination processes	Current	1	New unit	NC	New unit
1	NWPTRT042	Assess and improve granular media filters	Current	1	NWP406A - Investigate and plan the optimisation of granular media filtration processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added to Element 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT032	Assess and improve sedimentation processes	Current	1	NWP408A - Investigate and plan the optimisation of sedimentation and clarification processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added to Element 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT051	Assess and improve treatment for pathogen removal	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP411A.
1	NWPTRT085	Assess and improve wastewater processes to control microbial impacts	Current	1	NWP414A - Select strategies to control microbial impact on wastewater treatment processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN004	Assess, implement and report environmental procedures	Current	1	NWP301B - Implement, monitor and coordinate environmental procedures	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU029	Conduct and report dam safety instrumentation monitoring	Current	1	NWP326A - Conduct and report dam safety instrumentation monitoring	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET034	Conduct commissioning and post-commissioning activities	Current	1	NWP527B - Conduct commissioning and post commissioning activities	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR013	Construct and install irrigation delivery and stormwater drainage assets	Current	1	NWP252B - Construct and install irrigation delivery and stormwater drainage assets	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Element 2 reworded. PC 2.2 & 2.3 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET032	Construct and install wastewater assets	Current	1	NWP250B - Construct and install wastewater pipelines	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET031	Construct and install water distribution assets	Current	1	NWP233B - Construct and install water distribution assets	E	New unit, created drawing upon information from deleted units NWP410C and NWP525B.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR012	Construct open earthen channels or drains	Current	1	NWP251B - Construct open earthen channels or drains	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.5 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN010	Contribute to continuous improvement of quality systems	Current	1	NWP432A - Contribute to continuous improvement of quality systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added in Element 1. PC 1.2 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET003	Control electrical risk on metallic pipes	Current	1	New unit	NC	New unit
1	NWPSOU002	Control vegetation on a site	Current	1	NWP227B - Control vegetation on a site	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET025	Coordinate and manage maintenance and repair of network assets	Current	1	NWP303A - Monitor and control maintenance of water and wastewater system assets	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 3.1 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU041	Coordinate and monitor bulkwater system operations	Current	1	NWP418B - Coordinate and monitor bulkwater system operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Element 4 reworded. Elements 2 & 3 merged. PC 1.2 & 1.3 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU053	Coordinate and monitor groundwater system usage	Current	1	NWP417B - Coordinate and monitor groundwater system usage	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.1 & 1.2 & 1.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR034	Coordinate and monitor surface water systems	Current	1	NWP415A - Co-ordinate and monitor surface water systems operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN005	Coordinate and monitor the application of environmental plans and procedures	Current	1	NWP401B - Coordinate and monitor the application of environmental plans and procedures	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 2.5 removed, PC 3.4 and 5.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR035	Coordinate and monitor the operation of drainage systems	Current	1	NWP427B - Coordinate and monitor the operation of drainage systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.2 & 1.3 & 1.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR033	Coordinate and monitor the operation of irrigation delivery systems	Current	1	NWP425B - Coordinate and monitor the operation of irrigation delivery systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 2.1 removed, PC 2.2 reworded and PC 2.4 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET033	Coordinate and monitor water asset construction	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP410C and NWP525B.
1	NWPTRD023	Coordinate, implement and report on trade waste monitoring procedures	Current	1	NWP429B - Coordinate, implement and report on trade waste monitoring procedures	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 2 & 3 merged. PC 3.1 and 3.2 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR023	Detect and rectify faults with automated channel regulators	Current	1	New unit	NC	New unit
1	NWPGEN015	Develop an operational plan	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU014	Develop and implement catchment operational plans	Current	1	NWP416B - Coordinate and monitor water storage catchment activities	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 1.1 & 1.2 & 1.4 merged, PC 2.2 renumbered and PC 2.4 removed. One new PC added to Element 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPHYD017	Develop and maintain ratings	Current	1	NWP510A - Develop and maintain ratings	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. One new PC added in Element 2. PC 4.1 removed, PC 1.1 and 1.2 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRD022	Develop and modify trade waste policies and plans	Current	1	NWP529B - Develop and modify trade waste policies and plans	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 3.5 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR061	Develop and review groundwater management plan	Current	1	NWP515B - Develop and review groundwater management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR062	Develop and review irrigation system management plan	Current	1	NWP517B - Develop and review surface water management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR063	Develop and review surface water management plan	Current	1	NWP517B - Develop and review surface water management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET001	Disinfect network assets	Current	1	New unit	NC	New unit
1	NWPGEN002	Ensure compliance with water industry standards, guidelines and legislation	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP702A.
1	NWPTRD024	Establish connections of water and wastewater systems	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPHYD012	Establish monitoring sites	Current	1	NWP342A - Commission, decommission and monitor hydrometric sites, stations and facilities	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. All Elements reworded. Element 4 removed. Two new PC added in Element 1, one new PC added in Element 2. PC 1.1 removed, PC 2.2 and 3.2 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRD002	Evaluate, implement and monitor high risk trade waste discharge approvals	Current	1	NWP551A - Evaluate, implement and monitor high-risk trade waste discharge approvals	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. All PC in Element 1 revised. PC 3.3 & 3.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRD001	Evaluate, implement and monitor standard low risk trade waste discharge approvals	Current	1	NWP430A - Evaluate, implement and monitor standard low risk trade waste discharge approvals	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. All Elements reworded. All PC in Element 1 revised. One new PC in Element 3. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR041	Identify and apply water entitlements and delivery processes	Current	1	NWP239B - Identify and apply water entitlements and delivery processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU003	Identify and confirm blue-green algae outbreaks	Current	1	NWP365A - Identify and confirm blue green algae outbreaks	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Element 2 removed. Two new Elements added. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET013	Identify and respond to water problems	Current	1	NWP317B - Control water quality in distribution systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR073	Implement and coordinate catchment management plan	Current	1	NWP512B - Implement and manage catchment management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 4 reworded. PC 1.6 removed, PC 2.2 & 2.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR074	Implement and coordinate groundwater management plan	Current	1	NWP514B - Implement and manage groundwater management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 2.2 and 2.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR071	Implement and coordinate irrigation delivery systems	Current	1	NWP530B - Implement and manage the operation and maintenance of irrigation delivery systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR072	Implement and coordinate surface water management plan	Current	1	NWP516B - Implement and manage surface water management plan	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN006	Implement and manage environmental management policies	Current	1	NWP505B - Implement and manage environmental management policies, plans, procedures and programs	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 2 and 3 merged. PC 3.1, 3.2 & 3.3 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRD021	Implement and manage trade waste policies and plans	Current	1	NWP528B - Implement and manage trade waste policies and plans	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 4.3 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU026	Implement dam safety plans	Current	1	NWP511B - Manage dam safety surveillance	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 1.4 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU021	Inspect and maintain basic dams and water storages	Current	1	NWP241B - Inspect and maintain basic dams and water storages	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Element 1 and 2 reworded. PC 1.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU052	Inspect and operate groundwater regulation	Current	1	NWP321B - Inspect and operate groundwater regulation	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR003	Inspect and operate surface water systems	Current	1	NWP322B - Inspect and operate surface water systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.3 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU024	Inspect and report on concrete dam safety	Current	1	NWP327A - Inspect and report on concrete dam safety	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU025	Inspect and report on embankment dam safety	Current	1	NWP328A - Inspect and report on embankment dam safety	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU030	Inspect and report river performance	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP324B and NWP419B.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET016	Inspect sewer or stormwater line	Current	1	NWP331B - Inspect conduit and report on condition and features	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR011	Install devices for irrigation systems	Current	1	NWP216B - Install basic metering equipment and flow control devices for irrigation systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 2 & 3 merged, Element 4 removed, Element 5 reworded and one new PC added to Element 5. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET021	Install metering equipment	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP223A and NWP215A.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR014	Install meters for rural water supplies	Current	1	NWP302A - Install meters for non-potable, non-urban water supplies	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 2 removed. One new PC added to Element 1. PC 1.4 removed. PC 2.4 renumbered. Element 2 and 4 merged, all PC revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET026	Install, maintain and repair hydrants	Current	1	New unit	NC	New unit
1	NWPTRD011	Investigate and report on breaches of water industry legislation	Current	1	NWP315B - Investigate and report on breaches of water industry legislation	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRD012	Investigate, rectify and report on trade waste incidents	Current	1	NWP431A - Investigate, rectify and report on trade waste incidents	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 3.1 and 3.2 revised, PC 5.2 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET011	Locate, identify and protect utilities	Current	1	NWP234B - Locate, identify and protect utility services	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 1.3 and 1.6 removed, PC 1.1 and 1.2 reordered, PC 2.1 reworded and PC 3.1 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIR021	Maintain and repair irrigation channels and drains	Current	1	NWP230B - Maintain and repair irrigation channels and drains	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. One new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET024	Maintain and repair network assets for bulkwater	Current	1	NWP244B - Maintain and repair bulkwater assets	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET022	Maintain and repair network assets for drinking water	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP245B, NWP254B, NWP253B and NWP229B.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET023	Maintain and repair network assets for wastewater	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP257B, NWP255B, NWP253B and NWP229B.
1	NWPSOU011	Maintain catchment and surrounding areas	Current	1	NWP247A - Maintain catchment and surrounding areas	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 3.2 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR022	Maintain meters for rural water supplies	Current	1	NWP304A - Maintain meters for non-potable, non-urban water supplies	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 4.3 removed, PC1.3 & 1.4 merged and PC 2.1 & 2.3 & 2.4 & 2.5 merged and revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPHYD011	Measure and process low and medium flows using area velocity methods	Current	1	NWP340A - Measure and process hydrometric stream discharge data using wading gaugings	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 1 reworded. Two new PC added in Element 1. PC 1.2 and 2.4 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPHYD014	Measure and process medium and high flows using a range of methods and equipment	Current	1	NWP421A - Collect, measure and process hydrometric stream discharge gauging	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added in Element 1 and all PC reordered. Element 2 all PC reordered and revised. PC 3.4 removed. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR024	Monitor and conduct maintenance on flow control and metering devices	Current	1	NWP305B - Monitor and conduct minor maintenance on complex flow control and metering devices	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. One new PC added to Element 2. PC 4.3 removed. Element 5 all PC reordered. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU022	Monitor and control dam operations	Current	1	NWP319A - Monitor and control dam operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.2 and 1.3 removed. One new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR031	Monitor and control drainage operations	Current	1	NWP332B - Monitor and control drainage operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 2 reworded and all PC revised. Elements 3 & 4 merged. PC 1.3, 1.4 and 1.5 removed. One new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPIRR032	Monitor and control rural water distribution operations	Current	1	NWP333B - Monitor and control rural water distribution operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET027	Monitor and control vacuum sewer systems	Current	1	New unit	NC	New unit
1	NWPSOU013	Monitor and coordinate catchment operations	Current	1	NWP323B - Monitor and coordinate catchment operations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU023	Monitor and implement dam maintenance	Current	1	NWP320B - Monitor and implement dam maintenance	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 1.1, 1.2 and 2.1 removed. Two new PC added to Elements 1 and 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET043	Monitor and operate bulkwater transfer systems	Current	1	NWP258B - Monitor and operate bulkwater transfer systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Element 4 removed. PC 1.4 and 3.3 removed and PC 1.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU051	Monitor and operate groundwater extraction	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP242B and NWP243B.
1	NWPIRR001	Monitor and operate irrigation and domestic delivery systems	Current	1	NWP213B - Monitor and operate irrigation, stock and domestic delivery systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added to Element 3. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET004	Monitor and operate network systems	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP232B and NWP256B.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU054	Monitor and operate pump stations	Current	1	NWP259B - Operate, monitor and maintain pump stations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 1.2 and 3.1 removed, PC 1.4 revised, PC 3.3 & 3.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET042	Monitor and operate wastewater collection and transfer systems	Current	1	NWP311B - Monitor and operate wastewater collection and transfer systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET041	Monitor and operate water distribution systems	Current	1	NWP310B - Monitor and operate water distribution systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR042	Monitor and schedule water deliveries	Current	1	NWP316B - Monitor and schedule water deliveries	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU012	Monitor, inspect and report catchment operations	Current	1	NWP240B - Inspect and report catchment and surrounding areas	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new Element added. PC 1.3 removed, Three new PC added to Element 1 and two new PC added to Element 2. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT034	Operate and control activated carbon processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP367A.
1	NWPTRT081	Operate and control activated sludge processes	Current	1	NWP351B - Monitor, operate and control activated sludge processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 1 revised. One new PC added to Elements 1 and 2. Elements 1 and 2 all PC reordered and renumbered. PC 3.1 removed, PC 2.1 and 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT083	Operate and control aerobic bioreactor processes	Current	1	NWP350B - Monitor, operate and control trickling filter processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT054	Operate and control chloramination processes	Current	1	NWP366A - Monitor, operate and control chloramination disinfection processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements reordered. One new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT015	Operate and control coagulation and flocculation processes	Current	1	NWP347B - Monitor, operate and control coagulation and flocculation processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Two new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT033	Operate and control DAF processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP352B and NWP407A.
1	NWPTRT044	Operate and control desalination processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP357B

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT092	Operate and control digestion processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP353B and NWP270B.
1	NWPTRT012	Operate and control fluoride addition process	Current	1	NWP276A - Monitor, operate and report fluoridation processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 4 reworded. One new PC added to Element 3. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT041	Operate and control granular media filters	Current	1	NWP354B - Monitor, operate and control granular media filtration processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT052	Operate and control hypochlorite disinfection processes	Current	1	NWP268B - Monitor, operate and report chlorine disinfection systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 2 and 3 reworded. One new PC added to Elements 1 and 3. PC 2.3 removed, PC 3.1 revised and renumbered. PC 2.4 and 3.3 renumbered, PC 3.2 and 4.1 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT094	Operate and control incineration processes	Current	1	NWP349B - Monitor, operate and control incineration processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. One new PC added to Element 1. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT035	Operate and control ion exchange and softening processes	Current	1	NWP356B - Monitor, operate and control ion exchange processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT014	Operate and control iron and manganese removal processes	Current	1	New unit	NC	New unit
1	NWPTRT101	Operate and control lagoon processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP369 and NWP272B.
1	NWPTRT013	Operate and control liquefied chlorine gas disinfection	Current	1	New unit	NC	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Two new Elements added. Element 3 removed. PC 2.2 & 2.3 merged. PC 2.4 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT043	Operate and control membrane filters	Current	1	NWP355B - Monitor, operate and control membrane filtration processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT082	Operate and control nutrient removal processes	Current	1	NWP359B - Monitor, operate and control nutrient removal processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 1 revised. Three new PC added to Elements 1 and 2. Elements 1 and 2 all PC reordered and renumbered. PC 2.2, 2.5 and 3.1 removed, PC 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT072	Operate and control odour removal processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted unit NWP361B.
1	NWPTRT056	Operate and control ozone processes	Current	1	NWP274A - Monitor, operate and report ozone treatment systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.4 renumbered. PC 4.2 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT071	Operate and control pre-treatment processes	Current	1	NWP264B - Monitor, operate and report wastewater pre-treatment processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 4 reworded. PC 3.2 revised. PC 4.1 removed. PC 4.2 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT062	Operate and control reclaimed water irrigation	Current	1	NWP362B - Monitor, operate and control reclaimed water irrigation	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT031	Operate and control sedimentation and clarification processes	Current	1	NWP348B - Monitor, operate and control sedimentation and clarification processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPTRT091	Operate and control solids handling processes	Current	1	NWP360B - Monitor, operate and control dewatering processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT053	Operate and control UV processes	Current	1	NWP273A - Monitor, operate and report ultraviolet irradiation disinfection systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.4 renumbered. Element 4 all PC revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT061	Operate and control wastewater processes	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP262A, NWP263A and NWP346B.
1	NWPTRT073	Operate and control wastewater sedimentation processes	Current	1	NWP271B - Monitor, operate and report sedimentation processes	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT001	Operate and control water	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP260A, NWP261A and NWP345B

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
		treatment processes					
1	NWPSOU032	Operate and maintain fishways	Current	1	New unit	NC	New unit
1	NWPSOU031	Operate and maintain locks and weirs	Current	1	New unit	NC	New unit
1	NWPSOU033	Operate and maintain salt interception works	Current	1	New unit	NC	New unit
1	NWPIRR002	Operate basic flow control and regulating devices in irrigation systems	Current	1	NWP222A - Operate basic flow control and regulating devices in irrigation systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Elements 1 & 2 merged. PC 2.2 removed, PC4.2 and 4.3 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPTRT055	Operate chlorine dioxide processes	Current	1	NWP275A - Monitor, operate and report chlorine dioxide systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPHYD013	Operate, maintain and decommission monitoring sites	Current	1	NWP420A - Install, operate and maintain hydrometric instruments and equipment	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 1 reworded. Element 2 removed. One new PC added to Element 1 and Element 3. PC 1.1 removed, PC 1.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET005	Optimise network systems	Current	1	NWP403A - Investigate and plan the optimisation of potable water distribution systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN009	Perform laboratory testing	Current	1	NWP364B - Perform laboratory testing	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. All elements and PC rewritten with occupational outcome of the unit maintained. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET015	Perform leak detection	Current	1	NWP339B - Perform leak detection	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Elements 2 & 3 merged. PC 3.1 & 3.2 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET014	Perform odour and infiltration investigations	Current	1	NWP338B - Perform infiltration and odour investigations	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPHYD018	Plan water resource management	Current	1	NWP520A - Contribute to hydrometric planning and water resource management	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 2 and 3 reworded. Two new PC added to Element 1, Element 2 and Element 3. PC 1.1 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU028	Prepare and report on data related to flood operations	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP518B and NWP519B.
1	NWPNET002	Prepare and restore work site	Current	1	NWP226B - Prepare and restore work site	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. PC 3.1 removed, PC 2.3 & 2.4 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPHYD016	Process and report hydrographic time series data	Current	1	NWP509A - Collect, verify and report hydrometric time series data	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Elements 1 and 3 all PC reordered. PC 2.3 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPIRR051	Provide and promote customer service	Current	1	NWP300B - Provide and promote customer service	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPSOU001	Respond to blue-green algae outbreaks	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP368A, NWP365A and NWP278A.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPSOU027	Route floods through storages	Current	1	NWP318A - Monitor and operate gated spillways	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC2.1 and 2.2 removed. Two new PC added to Element 2, one new PC added to Element 4. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN007	Sample and test drinking water	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP208A and NWP218B.
1	NWPGEN014	Sample and test trade wastewater	Current	1	New unit	NC	New unit
1	NWPGEN008	Sample and test wastewater	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP210B and NWP218B.
1	NWPNET017	Supervise and report on conduit inspections	Current	1	NWP440A - Supervise conduit inspection and reporting	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN012	Support the role and functions of the water industry	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP201B and NWP207A.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPNET045	Test and commission wastewater collection systems	Current	1	NWP308B - Test and commission wastewater collection systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. One new PC added to Element 4. PC 4.1 & 4.2 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET044	Test and commission water distribution systems	Current	1	NWP309B - Test and commission water distribution systems	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. One new PC added to Element 5. PC 3.1 removed and PC 3.2 & 3.3 and 5.1 & 5.2 merged. Assessment Requirements created drawing upon specified assessment information from superseded unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
1	NWPHYD015	Undertake surveying of monitoring sites	Current	1	NWP504A - Collect and manage hydrometric station survey data	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. Element 2 all PC reordered and revised. Two new PC added to Element 3, one new PC added to Element 4. PC 3.5 reworded, PC 1.1 and 4.1 revised. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPNET012	Use locating devices	Current	1	NWP330B - Establish positions of underground utilities using locating devices	E	Unit code updated. Content and formatting updated to comply with the new standards. All PC transitioned from passive to active voice. Unit title changed to better reflect unit outcomes. PC 2.6 reworded. Assessment Requirements created drawing upon specified assessment information from superseded unit.
1	NWPGEN011	Use maps, plans, drawings and specifications	Current	1	New unit	NC	New unit, created drawing upon information from deleted units NWP209B and NWP105B.
2	NWPCCO001	Analyse and implement network data	Current	1	New unit	NC	New unit
2	NWPNET006	Apply construction principles to civil works in the water industry	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPHYD002	Apply principles of open channel hydraulics	Current	1	NWPHYD001 Apply principles of open channel hydraulics	E	Competency field changed from Hydrography to Hydrology 2 items from Performance Evidence moved to Knowledge Evidence
2	NWPHYD001	Apply principles of open channel hydraulics	Superseded	1	Superseded by NWPHYD002 Apply principles of open channel hydraulics	E	Superseded unit
2	NWPNET007	Conduct commissioning and post-commissioning activities	Current	1	NWPNET034 Conduct commissioning and post-commissioning activities	E	PC 1.5 added Performance Evidence and Knowledge Evidence added
2	NWPNET034	Conduct commissioning and post-commissioning activities	Superseded	1	Superseded by NWPNET007 Conduct commissioning and post-commissioning activities	E	Superseded unit
2	NWPHYD003	Develop and maintain ratings	Current	1	NWPHYD017 Develop and maintain ratings	E	Competency field changed from Hydrography to Hydrology PC 3.2 modified Performance Evidence reorganised
2	NWPHYD017	Develop and maintain ratings	Superseded	1	Superseded by NWPHYD003 Develop and maintain ratings	E	Superseded unit
2	NWPSOU004	Develop and manage a catchment plan	Current	1	New unit	NC	New unit
2	NWPSOU005	Develop and manage a dam safety inspection plan	Current	1	New unit	NC	New unit
2	NWPNET008	Develop and manage a drinking water system plan	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPSOU006	Develop and manage a flood plan	Current	1	NWPSOU028 Prepare and report on data related to flood operations	NC	Existing elements and performance criteria did not map to unit title. Deemed not fit for purpose. Elements changed and performance criteria added. New title created.
2	NWPTRT002	Develop and manage a treatment process monitoring program	Current	1	New unit	NC	New unit
2	NWPNET009	Develop and manage a wastewater collection plan	Current	1	New unit	NC	New unit
2	NWPTRT003	Develop and manage a wastewater treatment plan	Current	1	New unit	NC	New unit
2	NWPTRT004	Develop and manage a water treatment plan	Current	1	New unit	NC	New unit
2	NWPNET010	Develop and manage an alternate water supply plan	Current	1	New unit	NC	New unit
2	NWPTRD005	Develop and modify trade waste policies and plans	Current	1	NWPTRD022 Develop and modify trade waste policies and plans	E	Element 1 reworded
2	NWPTRD022	Develop and modify trade waste policies and plans	Superseded	1	Superseded by NWPTRD005 Develop and modify trade waste policies and plans	E	Superseded unit
2	NWPIRR004	Develop and review a groundwater plan	Current	1	NWPIRR061 Develop and review groundwater management plan	E	PC 1.3 renumbered to 1.4 PC 1.3 added Performance Evidence and Knowledge Evidence added

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPIRR005	Develop and review a surface water plan	Current	1	NWPIRR063 Develop and review surface water management plan	E	Element 1 reworded PC 1.1 reworded PC 1.5 deleted PC 2.4 added Performance Evidence and Knowledge Evidence added
2	NWPIRR006	Develop and review an irrigation system plan	Current	1	NWPIRR062 Develop and review irrigation system management plan	E	Element 1 reworded PC 2.5 added Performance Evidence and Knowledge Evidence added
2	NWPIRR061	Develop and review groundwater management plan	Superseded	1	Superseded by NWPIRR004 Develop and review a groundwater plan	E	Superseded unit
2	NWPIRR062	Develop and review irrigation system management plan	Superseded	1	Superseded by NWPIRR006 Develop and review an irrigation system plan	E	Superseded unit
2	NWPIRR063	Develop and review surface water management plan	Superseded	1	Superseded by NWPIRR005 Develop and review a surface water plan	E	Superseded unit
2	NWPTRD003	Evaluate, implement and monitor high risk trade waste discharge approvals	Current	1	NWPTRD002 Evaluate, implement and monitor high-risk trade waste discharge approvals.	E	PC 1.3 added PC 2.2 reworded Performance Evidence and Knowledge Evidence added
2	NWPTRD002	Evaluate, implement and monitor high-risk trade waste discharge approvals.	Superseded	1	Superseded by NWPTRD003 Evaluate, implement and monitor high risk trade waste discharge approvals	E	Superseded unit
2	NWPHYS001	Identify and analyse information	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
		technology for hydrographic surveys					
2	NWPSOU007	Implement and coordinate a catchment plan	Current	1	NWPIRR073 Implement and coordinate catchment management plan	E	Element 1 reworded Element 2 reworded PC 1.2 renumbered to 1.3 PC 1.3 renumbered to 1.4 PC 1.4 renumbered to 1.5 PC 1.5 renumbered to 1.6 PCs 1.2, 1.7 added PC 2.1 reworded and renumbered to 2.3 PC 2.2 reworded PC 2.3 renumbered to 2.1 PC 3.3 reworded PC 3.4 renumbered to 3.5 PC s3.5, 4.2 deleted PC 3.6 reworded Elements 3 and 4 merged PC 4.1 renumbered as 3.7 Knowledge evidence added

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPSOU008	Implement and coordinate a groundwater plan	Current	1	NWPIRR074 Implement and coordinate groundwater management plan	E	Element 1 reworded PC 2.2 reworded and renumbered 2.3 PC 2.3 reworded and renumbered 2.2 Elements 3 and 4 merged PC 3.1 reworded PC 3.4 deleted PC 3.5 reworded and renumbered to 3.4 PC 3.5 added PC 4.1 renumbered to 3.6 PC 4.2 renumbered to 3.7 Knowledge evidence added
2	NWPIRR007	Implement and coordinate a surface water plan	Current	1	NWPIRR072 Implement and coordinate surface water management plan	E	Element 1 reworded PC 1.2 reworded and renumbered to 1.3 PC 1.3 reworded and renumbered to 1.2 PC 1.4 reworded and renumbered to 1.7 PC 1.5 reworded and renumbered to 1.4 PC 1.6 renumbered to 1.5 PC 1.7 renumbered to 1.6 PC 2.1 renumbered to 2.2 PC 2.2 renumbered to 2.1 PC 2.3 deleted PC 2.4 reworded and renumbered to 2.3 PC 2.5 renumbered to 2.4 PC 2.6 renumbered to 2.5 PC 3.2 reworded Knowledge evidence added

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPIRR008	Implement and coordinate an irrigation delivery system plan	Current	1	NWPIRR071 Implement and coordinate irrigation delivery systems	E	Element 1 reworded Element 2 reworded PC 1.2 renumbered to 1.4 PC 1.3 renumbered to 1.6 PC 1.4 renumbered to 1.7 PC 1.6 renumbered to 1.8 PC 1.2, 1.3, 2.6 added Performance Evidence and Knowledge Evidence added
2	NWPIRR073	Implement and coordinate catchment management plan	Superseded	1	Superseded by NWPSOU007 Implement and coordinate a catchment plan	E	Superseded unit
2	NWPIRR074	Implement and coordinate groundwater management plan	Superseded	1	Superseded by NWPSOU008 Implement and coordinate a groundwater plan	E	Superseded unit
2	NWPIRR071	Implement and coordinate irrigation delivery systems	Superseded	1	Superseded by NWPIRR008 Implement and coordinate an irrigation delivery system plan	E	Superseded unit
2	NWPIRR072	Implement and coordinate surface water management plan	Superseded	1	Superseded by NWPIRR007 Implement and coordinate a surface water plan	E	Superseded unit
2	NWPTRD004	Implement and manage trade waste policies and plans	Current	1	NWPTRD021 Implement and manage trade waste policies and plans	E	PCs 1.4, 5.2, 5.3 deleted
2	NWPTRD021	Implement and manage trade waste policies and plans	Superseded	1	Superseded by NWPTRD004 Implement and manage trade waste policies and plans	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPHYS002	Interpret and analyse science principles for hydrographic surveying	Current	1	New unit	NC	New unit
2	NWPGEN016	Interpret and comply with regulatory requirements	Current	1	NWPGEN006 Implement and manage environmental management policies	NC	Existing core unit not deemed fit for purpose. Replaced with a new higher level unit.
2	NWPHYS003	Manage and analyse water levels and flows	Current	1	New unit	NC	New unit
2	NWPAMG001	Manage asset construction and maintenance	Current	1	New unit	NC	New unit
2	NWPHYS004	Manage hydrographic surveying projects	Current	1	New unit	NC	New unit
2	NWPHYD004	Plan water resource management	Current	1	NWPHYD018 Plan water resource management	E	Competency field changed from Hydrography to Hydrology
2	NWPHYD018	Plan water resource management	Superseded	1	Superseded by NWPHYD004 Plan water resource management	E	Superseded unit
2	NWPSOU028	Prepare and report on data related to flood operations	Superseded	1	Superseded by NWPSOU006 Develop and manage a flood plan	NC	Superseded unit
2	NWPHYD005	Process and report hydrographic time series data	Current	1	NWPHYD016 Process and report hydrographic time series data	E	Competency field changed from Hydrography to Hydrology PC 2.2 deleted PC 2.4 reworded and merged with PC 3.1
2	NWPHYD016	Process and report hydrographic time series data	Superseded	1	Superseded by NWPHYD005 Process and report hydrographic time series data	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
2	NWPHYS005	Use alternate positioning systems to gather data	Current	1	New unit	NC	New unit
2	NWPCCO002	Use control centre systems to monitor and control water	Current	1	New unit	NC	New unit
2	NWPHYS006	Use remote sensing for hydrographic surveying	Current	1	New unit	NC	New unit
2	NWPHYS007	Use underwater acoustics to map waterways	Current	1	New unit	NC	New unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD001	Respond to blue-green algae outbreaks	Current	1	NWPSOU001 Respond to blue-green algae outbreaks	E	Application reworded Competency field changed from Source to Catchment and Dams PC 1.1 reworded PC 1.2 reworded PC's 1.3 & 1.4 added PC 2.1 reworded PC 2.2 deleted PC 2.3 reworded and renumbered to 2.2 PC 2.4 incorporated into 1.2 PC 2.5 deleted PC 2.6 reworded and renumbered to 2.3 PC 2.7 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.1 reworded PC 4.2 deleted PC 4.3 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU001	Respond to blue-green algae outbreaks	Superseded	1	Superseded by NWPCAD001 Respond to blue-green algae outbreaks	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD002	Control vegetation on a site	Current	1	NWPSOU002 Control vegetation on a site.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded Elements 2 and 3 merged Element 4 renumbered to element 3 PC 1.1 reworded PC 1.2 reworded and renumbered to 1.3 PC 1.3 reworded and split into 1.5 & 1.6 PC 1.4 renumbered to 1.2 PC 2.1 renumbered to 2.5 PC 2.2 renumbered to 2.1 PC 2.3 reworded and renumbered to 2.2 PC 2.4 reworded and renumbered to 2.3 PC 3.1 reworded and renumbered to 2.6 PC 3.2 reworded and split into 1.4 & 2.7 PC 4.1 reworded and renumbered 3.1 PC 4.2 reworded and renumbered 3.2 PC's 2.4 & 3.3 added PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU002	Control vegetation on a site.	Superseded	1	Superseded by NWPCAD002 Control vegetation on a site	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD003	Identify and confirm blue-green algae outbreaks	Current	1	NWPSOU003 Identify and confirm blue-green algae outbreaks.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 2 reworded PC 1.1 reworded PC 1.3 reworded and renumbered to 1.4 PC 1.4 reworded and split into 1.5 & 1.6 PC 2.1 reworded PC 3.1 reworded PC 3.2 reworded PC 4.2 reworded PC's 1.3 & 2.3 added. PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPSOU003	Identify and confirm blue-green algae outbreaks.	Superseded	1	Superseded by NWPCAD003 Identify and confirm blue-green algae outbreaks	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD004	Maintain catchment and surrounding areas	Current	1	NWPSOU011 Maintain catchment and surrounding areas.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 4 reworded PC 1.1 reworded PC 1.3 reworded PC 2.2 reworded PC 2.3 reworded PC 2.5 reworded PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded and renumbered to 3.4 PC 4.1 reworded PC 4.3 reworded PC 4.4 reworded PC's 2.6, 3.3 & 3.5 added. PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU011	Maintain catchment and surrounding areas.	Superseded	1	Superseded by NWPCAD004 Maintain catchment and surrounding areas	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD005	Monitor, inspect and report catchment areas	Current	1	NWPSOU012 Monitor, inspect and report catchment operations.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.3 reworded PC 1.4 reworded PC 2.3 reworded PC 2.4 reworded PC 2.5 deleted PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.2 deleted PC 4.3 reworded and renumbered to 4.2 PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU012	Monitor, inspect and report catchment operations.	Superseded	1	Superseded by NWPCAD005 Monitor, inspect and report catchment areas	E	Superseded unit
3	NWPCAD006	Monitor and coordinate catchment operations	Current	1	NWPSOU013 Monitor and coordinate catchment operations.	E	Application reworded Competency field changed from Source to Catchment and Dams PC 1.2 reworded PC 1.3 reworded PC 3.3 reworded PC 4.1 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPSOU013	Monitor and coordinate catchment operations.	Superseded	1	Superseded by NWPCAD006 Monitor and coordinate catchment operations	E	Superseded unit
3	NWPCAD007	Inspect, operate and maintain low consequence dams	Current	1	NWPSOU021 Inspect and maintain basic dams and water storages.	E	Title changed Application reworded Competency field changed from Source to Catchment and Dams Elements 1, 2 & 3 reworded PC 1.2 reworded PC 1.3 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU021	Inspect and maintain basic dams and water storages.	Superseded	1	Superseded by NWPCAD007 Inspect, operate and maintain low consequence dams	E	Superseded unit
3	NWPCAD008	Monitor and control dam operations	Current	1	NWPSOU022 Monitor and control dam operations.	E	Application reworded Competency field changed from Source to Catchment and Dams Elements 1 & 2 reworded PC 1.1 reworded PC 1.2 replaced PC 1.3 added PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC's 3.3 & 3.4 combined PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU022	Monitor and control dam operations.	Superseded	1	Superseded by NWPCAD008 Monitor and control dam operations	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD009	Monitor and implement dam maintenance	Current	1	NWPSOU023 Monitor and implement dam maintenance.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.1 reworded PC's 1.2 & 1.3 merged PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PC's 3.3 & 3.4 merged PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPSOU023	Monitor and implement dam maintenance.	Superseded	1	Superseded by NWPCAD009 Monitor and implement dam maintenance	E	Superseded unit
3	NWPCAD010	Inspect and report on concrete dam safety	Current	1	NWPSOU024 Inspect and report on concrete dam safety.	E	Application reworded Competency field changed from Source to Catchment and Dams Elements 1, 2 & 3 reworded Element 4 added PC 1.1 reworded PC 1.2 reworded PC 1.4 reworded PC 1.5 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 deleted PC 3.2 reworded and renumbered to 3.1 PC's 3.2 & 3.3 merged and renumbered to 3.2 PC's 4.1 & 4.2 added. PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPSOU024	Inspect and report on concrete dam safety.	Superseded	1	Superseded by NWPCAD010 Inspect and report on concrete dam safety	E	Superseded unit
3	NWPCAD011	Inspect and report on embankment dam safety	Current	1	NWPSOU025 Inspect and report on embankment dam safety.	E	Application reworded Competency field changed from Source to Catchment and Dams Elements 1, 2 & 3 reworded Element 4 added PC 1.2 reworded PC 1.4 reworded PC 1.5 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 deleted PC 3.2 reworded and renumbered to 3.1 PC 3.3 reworded and renumbered to 3.2 PC's 4.1 & 4.2 added. PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU025	Inspect and report on embankment dam safety.	Superseded	1	Superseded by NWPCAD011 Inspect and report on embankment dam safety	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD012	Route floods through storages	Current	1	NWPSOU027 Route floods through storages.	E	Application reworded Competency field changed from Source to Catchment and Dams Elements 2 & 3 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 2.1 deleted and replaced by 2.2 PC 2.2 reworded and renumber to 2.1 PC 2.3 replaced PC 3.1 reworded PC 3.2 reworded and renumbered to 3.3 PC 3.2 replaced PC 3.3 renumbered to 3.4 PC 4.1 reworded PC 4.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU027	Route floods through storages.	Superseded	1	Superseded by NWPCAD012 Route floods through storages	E	Superseded unit
3	NWPCAD013	Conduct and report dam safety instrumentation monitoring	Current	1	NWPSOU029 Conduct and report dam safety instrumentation monitoring.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.1 reworded PC 2.3 reworded PC 2.4 reworded PC 3.4 added PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPSOU029	Conduct and report dam safety instrumentation monitoring.	Superseded	1	Superseded by NWPCAD013 Conduct and report dam safety instrumentation monitoring	E	Superseded unit
3	NWPCAD014	Inspect and report river performance	Current	1	NWPSOU030 Inspect and report river performance.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded & renumbered to 1.4 PC 1.3 – new added PC's 1.5 & 1.6 added PC 2.1 reworded PC's 2.3 & 2.4 merged & reworded to 2.3 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU030	Inspect and report river performance.	Superseded	1	Superseded by NWPCAD014 Inspect and report river performance	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD015	Operate and maintain locks and weirs	Current	1	NWPSOU031 Operate and maintain locks and weirs.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.1 reworded PC's 1.2 & 1.3 merged & renumbered to 1.2 PC 1.4 reworded & renumbered to 1.3 PC 3.2 reworded PC 4.1 reworded PC 4.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU031	Operate and maintain locks and weirs.	Superseded	1	Superseded by NWPCAD015 Operate and maintain locks and weirs	E	Superseded unit
3	NWPCAD016	Operate and maintain fishways	Current	1	NWPSOU032 Operate and maintain fishways.	E	Application reworded Competency field changed from Source to Catchment and Dams Element 1 reworded PC 1.2 reworded PC 1.3 reworded PC 2.3 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded PC 4.1 reworded PC 4.3 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPSOU032	Operate and maintain fishways.	Superseded	1	Superseded by NWPCAD016 Operate and maintain fishways	E	Superseded unit
3	NWPCAD017	Operate and maintain salt interception works	Current	1	NWPSOU033 Operate and maintain salt interception works.	E	Application reworded Competency field changed from Source to Catchment and Dams PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC 3.4 reworded PC 3.4 deleted PC 4.1 deleted PC 4.2 reworded & renumbered to 4.1 PC 4.3 reworded & renumbered to 4.2 PC 5.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU033	Operate and maintain salt interception works.	Superseded	1	Superseded by NWPCAD017 Operate and maintain salt interception works	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPCAD018	Monitor and operate bulkwater transfer systems	Current	1	NWPNET043 Monitor and operate bulkwater transfer systems.	E	Application reworded Competency field changed from Networks to Catchment and Dams Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.4 reworded PC 1.5 added PC 2.1 reworded PC 2.2 reworded PC 2.4 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET043	Monitor and operate bulkwater transfer systems.	Superseded	1	Superseded by NWPCAD018 Monitor and operate bulkwater transfer systems	E	Superseded unit
3	NWPCAD019	Monitor and operate groundwater extraction	Current	1	NWPSOU051 Monitor and operate groundwater extraction.	E	Application reworded Competency field changed from Source to Catchment and Dams PC 1.1 reworded PC 1.3 reworded PC 1.4 reworded PC 1.5 added PC 2.2 reworded PC 2.3 replaced PC 2.42 reworded PC 2.5 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPSOU051	Monitor and operate groundwater extraction.	Superseded	1	Superseded by NWPCAD019 Monitor and operate groundwater extraction	E	Superseded unit
3	NWPCAD020	Inspect and operate groundwater regulation	Current	1	NWPSOU052 Inspect and operate groundwater regulation.	E	Application reworded Competency field changed from Source to Catchment and Dams Elements 1, 2 & 3 reworded Element 4 added PC 1.1 reworded PC 1.2 reworded PC 1.4 reworded PC 1.5 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 deleted PC 3.2 reworded and renumbered to 3.1 PC's 3.2 & 3.3 merged and renumbered to 3.2 PC's 4.1 & 4.2 added. PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU052	Inspect and operate groundwater regulation.	Superseded	1	Superseded by NWPCAD020 Inspect and operate groundwater regulation	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation	Current	1	NWPGEN001 Apply the risk management principles of the water industry standards, guidelines and legislation.	E	Application reworded Element 2 reworded Element 4 removed and merged with element 3 PC 1.1 reworded PC 1.2 reworded PC 1.3 removed PC 2.1 reworded and renumbered 2.3 PC 2.2 reworded PC 2.3 reworded and renumbered 2.1 PC 3.3 reworded PC 4.1 reworded and renumbered to 3.4 PC 4.2 reworded and renumbered to 3.5 PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPGEN001	Apply the risk management principles of the water industry standards, guidelines and legislation.	Superseded	1	Superseded by NWPGEN017 Apply the risk management principles of the water industry standards, guidelines and legislation	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN018	Follow environmental and licensing procedures	Current	1	NWPGEN003 Apply environmental and licensing procedures of the water industry.	E	Title changed Application reworded Element 1 reworded Element 2 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 2.4 added PE and KE reviewed and updated Assessment conditions updated.
3	NWPGEN003	Apply environmental and licensing procedures of the water industry.	Superseded	1	Superseded by NWPGEN018 Follow environmental and licensing procedures	E	Superseded unit
3	NWPGEN019	Assess, implement and report environmental procedures	Current	1	NWPGEN004 Assess, implement and report environmental procedures.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 2.2 reworded PC 3.1 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPGEN004	Assess, implement and report environmental procedures.	Superseded	1	Superseded by NWPGEN019 Assess, implement and report environmental procedures	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN020	Sample and test source or drinking water	Current	1	NWPGEN007 Sample and test drinking water.	E	Title changed Application reworded PC 1.1 reworded PC 1.3 reworded PC 1.5 removed PC 2.1 deleted PC 2.2 reworded PC 2.5 reworded PC 2.6 reworded PC 2.7 removed PC 2.8 renumbered to 1.6 PC 3.1 reworded and renumbered to 2.1 PC 3.2 reworded PC 3.3 reworded PC 3.4 deleted PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPGEN007	Sample and test drinking water.	Superseded	1	Superseded by NWPGEN020 Sample and test source or drinking water	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN021	Sample and test wastewater	Current	1	NWPGEN008 Sample and test wastewater.	E	Application reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.5 removed PC 2.1 deleted PC 2.2 reworded PC 2.4 reworded PC 2.5 reworded PC 2.6 reworded PC 2.7 removed PC 2.8 deleted PC 3.1 reworded and renumbered to 2.1 PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded and renumbered to 3.1 PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPGEN008	Sample and test wastewater.	Superseded	1	Superseded by NWPGEN021 Sample and test wastewater	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN022	Perform laboratory testing	Current	1	NWPGEN009 Perform laboratory testing	E	Application reworded PC 1.1 reworded PC 1.2 deleted PC 1.3 reworded PC 1.4 reworded PC 1.5 reworded and renumbered to 1.1 PC 1.6 reworded and renumbered to 1.2 PC 2.1 reworded PC 2.2 reworded PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PC 3.5 reworded PC 3.6 reworded PC 3.7 incorporated into 3.5 PC 4.1 reworded PC 4.2 reworded PCs 4.3 & 4.4 merged and renumbered to 4.3 PC 4.5 reworded PE and KE reviewed and updated Range of conditions moved to CVIG under Implementation Advice Assessment conditions updated.
3	NWPGEN009	Perform laboratory testing	Superseded	1	Superseded by NWPGEN022 Perform laboratory testing	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN023	Use maps, plans, drawings and details	Current	1	NWPGEN011 Use maps, plans, drawings and specifications.	E	Application reworded Element 2 reworded PC 1.1 reworded PC 1.2 deleted PC 1.3 reworded and renumbered to 1.2 PC 1.4 reworded and renumbered to 1.3 PC 1.5 incorporated into 1.3 PC 1.6 reworded and renumbered to 1.4 PC 1.7 deleted PC 1.8 reworded and renumbered to 1.5 PC 2.1 deleted PC 2.2 reworded and renumbered to 2.1 PC 2.3 reworded and renumbered to 2.2 PC 2.5 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPGEN011	Use maps, plans, drawings and specifications.	Superseded	1	Superseded by NWPGEN023 Use maps, plans, drawings and details	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN024	Identify the role and functions of the water industry	Current	1	NWPGEN012 Support the role and functions of the water industry.	E	Application reworded Elements 2 & 5 reworded PC 1.1 reworded PC 1.2 reworded PC 2.1 reworded PC 2.2 deleted PC 2.3 reworded and renumbered to 2.2 PC 2.4 deleted PC 2.5 deleted PC 2.6 deleted PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.1 reworded PC 4.3 reworded PC 5.1 reworded PC 5.2 deleted PC 5.3 deleted PC 5.4 reworded and renumbered to 5.2 Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPGEN012	Support the role and functions of the water industry.	Superseded	1	Superseded by NWPGEN024 Identify the role and functions of the water industry	E	Superseded unit
3	NWPGEN025	Apply principles of chemistry to water systems and processes	Current	1	NWPGEN013 Apply principles of chemistry to water systems and processes.	E	Application reworded PC 2.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPGEN013	Apply principles of chemistry to water systems and processes.	Superseded	1	Superseded by NWPGEN025 Apply principles of chemistry to water systems and processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN026	Provide and promote customer service	Current	1	NWPIRR051 Provide and promote customer service.	E	Application reworded Competency field changed from Irrigation to General Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 1.5 reworded PC 2.2 deleted PC 2.3 reworded and renumbered to 2.2 PC 2.4 reworded PC 2.5 deleted PC 3.1 reworded PC 3.2 deleted PC 3.3 reworded and renumbered to 3.2 PC 3.4 incorporated into 3.1 PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR051	Provide and promote customer service.	Superseded	1	Superseded by NWPGEN026 Provide and promote customer service	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPGEN027	Monitor and operate pump stations	Current	1	NWPSOU054 Monitor and operate pump stations.	E	Application reworded Competency field changed from Source to General Element 1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 1.5 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PC 4.4 added PC 5.2 reworded PC 6.1 reworded PC 6.2 reworded PC 6.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPSOU054	Monitor and operate pump stations.	Superseded	1	Superseded by NWPGEN027 Monitor and operate pump stations	E	Superseded unit
3	NWPIWS001	Monitor and operate rural irrigation and domestic delivery systems	Current	1	NWPIRR001 Monitor and operate irrigation and domestic delivery systems	E	Title changed Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.3 added PC 1.4 reworded PC 1.5 reworded PC 2.3 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIRR001	Monitor and operate irrigation and domestic delivery systems	Superseded	1	Superseded by NWPIWS001 Monitor and operate rural irrigation and domestic delivery systems	E	Superseded unit
3	NWPIWS002	Operate regulating devices in rural irrigation systems	Current	1	NWPIRR002 Operate basic flow control and regulating devices in irrigation systems.	E	Title changed Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 1.5 reworded PC 2.1 reworded PC 3.1 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR002	Operate basic flow control and regulating devices in irrigation systems.	Superseded	1	Superseded by NWPIWS002 Operate regulating devices in rural irrigation systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS003	Inspect and operate water diversion systems	Current	1	NWPIRR003 Inspect and operate surface water systems.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 1 reworded Elements 3 & 4 merged and renumbered to 3 PC 1.1 reworded PC 1.5 added PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 2.4 reworded PC 2.4 added PC 2.5 reworded and renumbered to 2.6 PC 2.5 new PC 3.2 reworded PC 4.1 reworded and renumbered to 3.3 PC 4.2 reworded and renumbered to 3.4 PC 4.3 reworded and renumbered to 3.5 PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR003	Inspect and operate surface water systems.	Superseded	1	Superseded by NWPIWS003 Inspect and operate water diversion systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS004	Install meters for rural water supplies	Current	1	NWPIRR014 Install meters for rural water supplies.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.4 reworded PC 1.5 reworded PC 2.1 replaced PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR014	Install meters for rural water supplies.	Superseded	1	Superseded by NWPIWS004 Install meters for rural water supplies	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS005	Maintain and repair irrigation channels and drains	Current	1	NWPIRR021 Maintain and repair irrigation channels and drains.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 1 reworded Element 2 reworded Element 3 deleted Element 4 renumbered to element 3 PC 1.1 reworded and renumbered to 2.1 PC 1.2 reworded and renumbered to 2.2 PC 1.3 reworded and renumbered to 2.3 PC 1.4 renumbered to 2.5 PC 1.4 added PC 1.5 reworded PC 2.1 reworded and renumbered to 1.1 PC 2.2 reworded and renumbered to 1.2 PC 2.3 deleted PC 2.4 deleted PC 2.4 added PC 2.5 reworded and renumbered to 1.3 PC 3.1 deleted PC 3.2 deleted PC 4.1 renumbered to 3.1 PC 4.2 reworded and renumbered to 3.2 PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIRR021	Maintain and repair irrigation channels and drains.	Superseded	1	Superseded by NWPIWS005 Maintain and repair irrigation channels and drains	E	Superseded unit
3	NWPIWS006	Maintain meters for rural water supplies	Current	1	NWPIRR022 Maintain meters for rural water supplies.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 1 reworded PC 1.2 reworded PC 1.3 reworded PC 2.1 reworded and renumbered to 2.2 PC 2.1 added PC 2.2 reworded and renumbered to 2.3 PC 3.1 reworded PC 3.2 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR022	Maintain meters for rural water supplies.	Superseded	1	Superseded by NWPIWS006 Maintain meters for rural water supplies	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS007	Detect and rectify faults with automated channel regulators	Current	1	NWPIRR023 Detect and rectify faults with automated channel regulator.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 1 reworded PC 1.1 replaced PC 1.1 (existing) reworded and renumbered to 1.2 PC 1.2 reworded and renumbered to 1.3 PC 1.3 reworded and renumbered to 1.4 PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 3.2 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR023	Detect and rectify faults with automated channel regulator.	Superseded	1	Superseded by NWPIWS007 Detect and rectify faults with automated channel regulators	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS008	Monitor and conduct maintenance on rural irrigation assets	Current	1	NWPIRR024 Monitor and conduct maintenance on flow control and metering devices.	E	Title reworded Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 1 reworded Element 2 reworded Element 3 reworded Element 4 reworded PC 1.1 reworded PC 1.4 added PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 added PC 4.1 reworded PC 5.1 reworded PC 5.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR024	Monitor and conduct maintenance on flow control and metering devices.	Superseded	1	Superseded by NWPIWS008 Monitor and conduct maintenance on rural irrigation assets	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIWS009	Monitor and control drainage operations	Current	1	NWPIRR031 Monitor and control drainage operations.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.2 renumbered to 1.3 PC 1.2 added PC 1.3 reworded and renumbered to 1.4 PC 2.3 deleted PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR031	Monitor and control drainage operations.	Superseded	1	Superseded by NWPIWS009 Monitor and control drainage operations	E	Superseded unit
3	NWPIWS010	Monitor and control rural water distribution operations	Current	1	NWPIRR032 Monitor and control rural water distribution operations.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.2 reworded PC 1.3 reworded PC 1.4 renumbered to 1.5 PC 1.4 added PC 2.1 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR032	Monitor and control rural water	Superseded	1	Superseded by NWPIWS010 Monitor and control rural water distribution operations	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
		distribution operations.					
3	NWPIWS011	Identify and apply water entitlements and delivery processes	Current	1	NWPIRR041 Identify and apply water entitlements and delivery processes.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply Element 2 reworded PC 1.2 reworded PC 1.3 reworded PC 2.1 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPIRR041	Identify and apply water entitlements and delivery processes.	Superseded	1	Superseded by NWPIWS011 Identify and apply water entitlements and delivery processes	E	Superseded unit
3	NWPIWS012	Monitor and schedule water deliveries	Current	1	NWPIRR042 Monitor and schedule water deliveries.	E	Application reworded Competency field changed from Irrigation to Irrigation Water Supply PC 1.1 reworded PC 2.2 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIRR042	Monitor and schedule water deliveries.	Superseded	1	Superseded by NWPIWS012 Monitor and schedule water deliveries	E	Superseded unit
3	NWPNET018	Disinfect network assets	Current	1	NWPNET001 Disinfect network assets.	E	Application reworded Element 1 reworded PC 1.3 reworded PC 1.4 reworded PC 2.1 reworded PC 2.3 reworded PC 2.5 deleted PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET001	Disinfect network assets.	Superseded	1	Superseded by NWPNET018 Disinfect network assets	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET019	Prepare and restore worksite	Current	1	NWPNET002 Prepare and restore worksite.	E	Title reworded Application reworded Element 1 reworded Element 2 reworded Element 3 reworded Element 4 reworded PC 1.1 reworded and renumbered to 1.2 PC 1.2 reworded and renumbered to 1.1 PC 2.2 reworded PC 2.3 reworded PC 2.4 reworded PC 3.2 reworded and renumbered to 3.3 PC 3.3 reworded and renumbered to 3.2 PC 3.4 added PC 4.1 reworded PC 4.2 reworded and renumbered to 4.3 PC 4.2 replaced PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET002	Prepare and restore worksite.	Superseded	1	Superseded by NWPNET019 Prepare and restore worksite	E	Superseded unit
3	NWPNET020	Control electrical risk on metallic pipes	Current	1	NWPNET003 Control electrical risk on metallic pipes.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PCs 1.3 & 1.4 reworded and merged PC 1.5 renumbered to 1.4 PC 1.5 added PC 2.1 reworded PC 2.4 reworded PC 3.1 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET003	Control electrical risk on metallic pipes.	Superseded	1	Superseded by NWPNET020 Control electrical risk on metallic pipes	E	Superseded unit
3	NWPNET028	Monitor and operate network systems	Current	1	NWPNET004 Monitor and operate network systems.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 1.5 renumbered to 1.4 PC 1.5 added PC 2.2 reworded PC 2.3 reworded PC 3.2 reworded PC 3.3 reworded PC 4.5 reworded PC 4.5 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET004	Monitor and operate network systems.	Superseded	1	Superseded by NWPNET028 Monitor and operate network systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET029	Locate, identify and protect utilities	Current	1	NWPNET011 Locate, identify and protect utilities.	E	Application reworded Element 1 reworded Element 2 reworded Element 3 reworded Element 4 reworded Element 5 replaced PC 1.1 reworded PC 1.2 reworded PC 1.4 reworded PC 1.5 added PC 2.1 reworded PC 2.2 replaced PC 2.3 replaced PC 2.4 added PC 2.5 added PC 3.2 reworded PC 3.3 reworded PCs 4.1 & 4.2 reworded and merged PC 4.3 renumbered to 4.2 PC 4.4 reworded PC 5.1 replaced PC 5.2 replaced PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET011	Locate, identify and protect utilities.	Superseded	1	Superseded by NWPNET029 Locate, identify and protect utilities	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET030	Identify and respond to water quality problems	Current	1	NWPNET013 Identify and respond to water problems.	E	Title changed Application reworded PC 1.1 reworded PC 1.2 reworded PC 1.4 reworded PC 1.5 reworded PC 1.6 added PC 2.2 reworded PC 2.3 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET013	Identify and respond to water problems.	Superseded	1	Superseded by NWPNET030 Identify and respond to water quality problems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET035	Perform odour and infiltration investigations	Current	1	NWPNET014 Perform odour and infiltration investigations.	E	Application reworded Element 1 – reworded Element 2 – reworded and renumbered to element 3 New Element 2 – added Element 4 – added PC 1.1 reworded PC 1.2 reworded and renumbered to 1.3 PC 1.3 reworded and renumbered to 1.4 PC 1.5 added PC 2.1 replaced PC 2.2 merged with new 1.2 PC 2.3 reworded and renumber 3.1 PC 2.4 reworded and renumber 3.2 PC 2.5 reworded and renumber 3.3 PC 2.6 reworded and renumber 4.3 PC 's 3.1 – 3.4 added PC 's 4.1 – 4.3 added PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET014	Perform odour and infiltration investigations.	Superseded	1	Superseded by NWPNET035 Perform odour and infiltration investigations	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET036	Perform leak detection	Current	1	NWPNET015 Perform leak detection.	E	Application reworded Element 1 – reworded Element 2 – split into elements 2 & 3 PC 1.1 reworded PC 1.2 reworded and renumber 1.3 PC 1.2 replaced with new PC PC 1.3 reworded and renumbered 1.4 PC's 1.4 & 1.5 added PC 2.2 covered in new 1.2 PC 2.3 reworded and renumbered to 2.2 PC 2.4 reworded and renumbered to 2.3 PC 2.5 reworded PC 2.6 reworded and renumbered to 3.3 PC's 3.1 & 3.2 added PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET015	Perform leak detection.	Superseded	1	Superseded by NWPNET036 Perform leak detection	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET037	Inspect sewer or stormwater assets	Current	1	NWPNET016 Inspect sewer or stormwater line.	E	Application reworded Element 1 reworded Element 2 reworded Element 3 reworded PC 1.1 reworded PC 1.5 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 2.5 reworded PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PC 4.1 reworded PC 5.1 reworded PC 5.2 reworded PC 5.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET016	Inspect sewer or stormwater line.	Superseded	1	Superseded by NWPNET037 Inspect sewer or stormwater assets	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET038	Install metering equipment	Current	1	NWPNET021 Install metering equipment.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.3 deleted PC 1.4 reworded PC 1.5 reworded and renumbered to 1.3 PC 1.6 reworded and renumbered to 1.5 PC 1.7 reworded and renumbered to 1.6 PC 1.8 reworded and renumbered to 1.7 PC 1.9 renumbered to 1.8 PC 1.9 replaced PC 2.1 replaced by reworded 2.2 PC 2.2 added PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PC 3.5 reworded PC 4.1 reworded PC 4.2 reworded PC 5.1 & 5.2 merged and renumbered 5.3 PC 5.3 reworded and renumbered to 5.2 PC 5.4 & 5.5 merged and renumbered 5.1 PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET021	Install metering equipment.	Superseded	1	Superseded by NWPNET038 Install metering equipment	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET039	Maintain and repair network assets for drinking water	Current	1	NWPNET022 Maintain and repair network assets for drinking water.	E	Application reworded Element 1 reworded Element 3 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.5 deleted, PC 1.6 reworded and renumbered 1.5 PC 2.1 reworded PC 2.3 reworded PC 2.4 deleted and replaced by 2.5 PC 2.6 reworded and renumbered to 2.5 PC 3.1 reworded PC 3.2 reworded PC 3.3 deleted Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET022	Maintain and repair network assets for drinking water.	Superseded	1	Superseded by NWPNET039 Maintain and repair network assets for drinking water	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET040	Maintain and repair network assets for wastewater	Current	1	NWPNET023 Maintain and repair network assets for wastewater.	E	Application reworded Element 1 reworded Element 3 reworded PC 1.1 reworded PC 1.5 replaced PC 1.6 added PC 2.1 reworded PC 2.3 deleted and replaced by reworded 2.4 PC 2.4 deleted and replaced by reworded 2.5 PC 3.1 reworded PC 3.2 reworded PC 3.3 deleted Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET023	Maintain and repair network assets for wastewater.	Superseded	1	Superseded by NWPNET040 Maintain and repair network assets for wastewater	E	Superseded unit
3	NWPNET046	Maintain and repair network assets for bulkwater	Current	1	NWPNET024 Maintain and repair network assets for bulkwater.	E	Application reworded Element 1 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 deleted PC 2.4 deleted PC 2.5 reworded and renumbered to 2.3 PC 2.6 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET024	Maintain and repair network assets for bulkwater.	Superseded	1	Superseded by NWPNET046 Maintain and repair network assets for bulkwater	E	Superseded unit
3	NWPNET047	Install, maintain and repair hydrants	Current	1	NWPNET026 Install, maintain and repair hydrants.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 existing reworded and renumbered to 1.5 PC 1.4 replaced PC 1.5 reworded and replaced to 1.6 PC 1.6 existing deleted PC 1.7 replaced PC 1.8 existing, reworded and renumbered to 1.7 PC 1.8 replaced PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 2.4 reworded PC 2.4 reworded PC 2.5 added PC 3.1 reworded PC 3.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET026	Install, maintain and repair hydrants.	Superseded	1	Superseded by NWPNET047 Install, maintain and repair hydrants	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET048	Monitor and control vacuum sewer systems	Current	1	NWPNET027 Monitor and control vacuum sewer systems	E	Application reworded Element 1 reworded PC 1.3 reworded PC 1.4 reworded PC 1.6 deleted PC 2.1 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET027	Monitor and control vacuum sewer systems	Superseded	1	Superseded by NWPNET048 Monitor and control vacuum sewer systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET049	Construct and install water distribution assets	Current	1	NWPNET031 Construct and install water distribution assets.	E	Application reworded Prerequisite added Element 1 reworded Element 2 reworded Elements 3 & 4 merged PC 1.1 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 reworded PC 2.4 reworded PC 2.5 reworded and renumbered to 2.6 PC 2.5 new PC added PC 3.1 reworded PC 3.2 reworded PC 4.1 reworded and renumbered to 3.3 PC 4.2 reworded and renumbered to 3.4 PC 4.3 reworded and renumbered to 3.5 PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET031	Construct and install water distribution assets.	Superseded	1	Superseded by NWPNET049 Construct and install water distribution assets	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET050	Construct and install wastewater collection assets	Current	1	NWPNET032 Construct and install wastewater assets.	E	Title reworded Application reworded Element 1 reworded Element 2 reworded Element 3 reworded PC 1.3 reworded PC 1.4 renumbered to 1.5 and PC 2.1 moved to 1.4 PC 1.6 deleted PC 2.1 reworded PC 2.2 reworded and renumbered to 2.1 PC 2.3 reworded and renumbered to 2.2 PC 2.4 reworded and renumbered to 2.3 PC 2.5 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET032	Construct and install wastewater assets.	Superseded	1	Superseded by NWPNET050 Construct and install wastewater collection assets	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET051	Monitor and operate water distribution systems	Current	1	NWPNET041 Monitor and operate water distribution systems.	E	Application reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 2.1 reworded PC 2.3 reworded PC 3.2 deleted and replaced with reworded 3.3 PC 3.4 reworded and renumbered to 3.3 PC 4.1 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET041	Monitor and operate water distribution systems.	Superseded	1	Superseded by NWPNET051 Monitor and operate water distribution systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET052	Monitor and operate wastewater collection and transfer systems	Current	1	NWPNET042 Monitor and operate wastewater collection and transfer systems.	E	Application reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 1.4 reworded PC 2.1 reworded PC 2.2 reworded PC 3.2 deleted and replaced with reworded 3.3 PC 3.4 reworded and renumbered to 3.3 PC 4.1 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET042	Monitor and operate wastewater collection and transfer systems.	Superseded	1	Superseded by NWPNET052 Monitor and operate wastewater collection and transfer systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET053	Test and commission water distribution systems	Current	1	NWPNET044 Test and commission water distribution systems.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 deleted & replaced with reworded 1.4 PC 1.5 reworded and renumbered to 1.4 PC 1.6 renumbered to 1.5 PC 2.1 reworded PC 2.2 reworded PC 3.1 reworded PC 3.3 deleted PC 4.1 reworded PC 4.2 reworded PC 4.3 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET044	Test and commission water distribution systems.	Superseded	1	Superseded by NWPNET053 Test and commission water distribution systems	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPNET054	Test and commission wastewater collection systems	Current	1	NWPNET045 Test and commission wastewater collection systems.	E	Application reworded Element 1 reworded Element 2 reworded PC 1.4 reworded PC 1.5 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 deleted & replaced with merged PC's 2.4 & 2.5 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPNET045	Test and commission wastewater collection systems.	Superseded	1	Superseded by NWPNET054 Test and commission wastewater collection systems	E	Superseded unit
3	NWPGEN028	Investigate and report on breaches of water industry legislation	Current	1	NWPTRD011 Investigate and report on breaches of water industry legislation.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded PC 2.1 reworded PC 2.3 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRD011	Investigate and report on breaches of water industry legislation.	Superseded	1	Superseded by NWPGEN028 Investigate and report on breaches of water industry legislation	E	Superseded unit
3	NWPTRT005	Monitor and operate water treatment processes	Current	1	NWPTRT001 Operate and control water treatment processes.	E	Title changed Application reworded Element 1 reworded Element 2 reworded PC 2.1 reworded PC 2.2 replaced PC 2.3 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT001	Operate and control water treatment processes.	Superseded	1	Superseded by NWPTRT005 Monitor and operate water treatment processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT006	Monitor and operate fluoride addition processes	Current	1	NWPTRT012 Operate and control fluoride addition process.	E	Title changed Application reworded Elements 1, 2 & 3 reworded PC 1.1 reworded PC 1.3 reworded PC 1.4 added PC 2.1 reworded PC 2.2 reworded PC 2.3 replaced PC 2.4 reworded and renumbered to 2.3 PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.1 replaced PC 4.2 replaced PC 4.1 deleted Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT012	Operate and control fluoride addition process.	Superseded	1	Superseded by NWPTRT006 Monitor and operate fluoride addition processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT007	Monitor and operate liquefied chlorine gas disinfection processes	Current	1	NWPTRT013 Operate and control liquefied chlorine gas disinfection.	E	Title changed Application reworded Elements 1 & 3 reworded PC 1.1 replaced PC 1.2 replaced PC 1.3 reworded and renumbered to 1.2 PC 1.4 reworded and renumbered to 1.3 PC 1.5 reworded and renumbered to 1.4 PC 2.1 reworded PC 2.2 reworded PC 2.3 replaced PC 2.4 reworded PC 3.2 reworded PC 3.3 reworded PC 3.4 reworded PC 4.1 reworded PC 4.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT013	Operate and control liquefied chlorine gas disinfection.	Superseded	1	Superseded by NWPTRT007 Monitor and operate liquefied chlorine gas disinfection processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT008	Operate and control iron and manganese removal processes	Current	1	NWPTRT014 Operate and control iron and manganese removal processes.	E	Application reworded Elements 1 & 2 reworded PC 1.3 reworded PC 2.1 reworded PCs 2.2 & 2.3 merged and renumbered to 2.3 PC 2.4 reworded and renumbered to 2.2 PC 2.5 reworded and renumbered to 2.4 PC 2.6 deleted PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT014	Operate and control iron and manganese removal processes.	Superseded	1	Superseded by NWPTRT008 Operate and control iron and manganese removal processes	E	Superseded unit
3	NWPTRT009	Operate and control coagulation and flocculation processes	Current	1	NWPTRT015 Operate and control coagulation and flocculation processes.	E	Application reworded Element 1 reworded and renumbered to 3 Element 1 replaced PC 1.1 replaced PC 1.2 reworded and renumbered to 3.2 PC 1.3 reworded and renumbered to 3.3 PC 1.4 reworded and renumbered to 4.1 PC 2.1 reworded PC 2.2 replaced PC 3.1 reworded PC 3.2 split into 3.3 & 4.1 PC 3.3 split into 4.2 & 4.3 PC 4.1 reworded and renumbered to 5.1 PC 4.2 reworded and renumbered to 5.2 PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT015	Operate and control coagulation and flocculation processes.	Superseded	1	Superseded by NWPTRT009 Operate and control coagulation and flocculation processes	E	Superseded unit
3	NWPTRT010	Operate and control sedimentation and clarification processes	Current	1	NWPTRT031 Operate and control sedimentation and clarification processes and NWPTRT073 Operate and control wastewater sedimentation processes.	E	Application reworded Element 1 reworded Element 2 deleted Element 3 renumbered to 2 Element 4 renumbered to 3 PC 1.1 replaced PC 1.2 reworded and renumbered to 2.2 PC 2.1 deleted PC 2.2 deleted PC 2.3 deleted PC 3.1 reworded and renumbered to 2.1 PC 3.2 reworded and renumbered to 2.3 PC 3.3 replaced PC 3.4 reworded and renumbered to 2.4 PC 4.1 reworded and renumbered to 3.1 PC 4.2 reworded and renumbered to 3.2 PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT031	Operate and control sedimentation and clarification processes and NWPTRT073 Operate and control wastewater sedimentation processes.	Superseded	1	Superseded by NWPTRT010 Operate and control sedimentation and clarification processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT016	Operate and control dissolved air flotation processes	Current	1	NWPTRT033 Operate and control DAF processes.	E	Title changed Application reworded Elements 1 & 2 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 & 2.3 merged and renumbered to 2.3 PC 2.4 reworded and renumbered to 2.2 PC 2.6 deleted PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT033	Operate and control DAF processes.	Superseded	1	Superseded by NWPTRT016 Operate and control dissolved air flotation processes	E	Superseded unit
3	NWPTRT017	Operate and control activated carbon processes	Current	1	NWPTRT034 Operate and control activated carbon processes.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 & 2.3 merged and renumbered to 2.3 PC 2.4 deleted PC 2.5 reworded and renumbered to 2.2 PC 2.6 reworded and renumbered to 2.4 PC 2.7 deleted PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT034	Operate and control activated carbon processes.	Superseded	1	Superseded by NWPTRT017 Operate and control activated carbon processes	E	Superseded unit
3	NWPTRT018	Operate and control ion exchange and softening processes	Current	1	NWPTRT035 Operate and control ion exchange and softening processes.	E	Application reworded Elements 1 & 3 reworded PC 1.1 replaced PC 1.2 reworded and renumbered to 2.2 PC 2.1 reworded PC 2.2 reworded and renumbered to 2.3 PC 2.3 reworded and renumbered to 2.4 PC 2.4 reworded and renumbered to 3.1 PC 2.5 reworded and renumbered to 1.3 PC 3.1 replaced PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT035	Operate and control ion exchange and softening processes.	Superseded	1	Superseded by NWPTRT018 Operate and control ion exchange and softening processes	E	Superseded unit
3	NWPTRT019	Operate and control granular media filters	Current	1	NWPTRT041 Operate and control granular media filters.	E	Application reworded Element 1 reworded PC 1.1 replaced PC 1.2 reworded and renumbered to 2.2 PC 1.3 added PC 2.1 reworded PC 2.2 reworded and renumbered to 2.3 PC 2.3 deleted PC 2.4 reworded PC 3.1 replaced PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT041	Operate and control granular media filters.	Superseded	1	Superseded by NWPTRT019 Operate and control granular media filters	E	Superseded unit
3	NWPTRT020	Operate and control membrane filters	Current	1	NWPTRT043 Operate and control membrane filters.	E	Application reworded Element 1 reworded Element 2 deleted Element 3 renumbered to 2 Element 4 renumbered to 3 PC 1.1 replaced PC 1.2 reworded and renumbered to 2.2 PC 1.3 reworded PC 2.1 deleted PC 2.2 deleted PC 2.3 deleted PC 3.1 reworded & renumbered to 2.1 PC 3.2 reworded & renumbered to 2.3 PC 3.3 reworded & renumbered to 2.4 PC 4.1 reworded & renumbered to 3.1 PC 4.2 reworded & renumbered to 3.2 PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT043	Operate and control membrane filters.	Superseded	1	Superseded by NWPTRT020 Operate and control membrane filters	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT021	Operate and control desalination processes	Current	1	NWPTRT044 Operate and control desalination processes.	E	Application reworded Element 1 reworded PC 1.1 replaced PC 1.2 reworded and renumbered to 2.2 PC 2.1 reworded PC 2.2 reworded and renumbered to 2.3 PC 2.3 reworded and renumbered to 2.4 PC 2.4 reworded and renumbered to 1.3 PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT044	Operate and control desalination processes.	Superseded	1	Superseded by NWPTRT021 Operate and control desalination processes	E	Superseded unit
3	NWPTRT022	Monitor and operate hypochlorite disinfection processes	Current	1	NWPTRT052 Operate and control hypochlorite disinfection processes.	E	Title changed Application reworded Elements 1 & 2 reworded PC 1.3 reworded PC 1.5 reworded PC 2.2 reworded PC 2.4 added PC 3.2 reworded PC 4.2 reworded PC 4.3 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT052	Operate and control hypochlorite disinfection processes.	Superseded	1	Superseded by NWPTRT022 Monitor and operate hypochlorite disinfection processes	E	Superseded unit
3	NWPTRT023	Monitor and operate ultraviolet processes	Current	1	NWPTRT053 Operate and control UV processes.	E	Title changed Application reworded Elements 1 & 2 reworded PC 1.1 reworded PC 1.2 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 replaced PC 2.4 added PC 3.1 reworded PC 3.2 reworded PC 3.3 reworded PC 4.1 reworded and renumbered 4.2 PC 4.2 reworded and renumbered 4.3 PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT053	Operate and control UV processes.	Superseded	1	Superseded by NWPTRT023 Monitor and operate ultraviolet processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT024	Operate and control chloramination processes	Current	1	NWPTRT054 Operate and control chloramination processes.	E	Application reworded Element 1 reworded Element 2 reworded and renumbered to element 3 Element 3 renumbered to element 2 PC 1.1 replaced PC 1.2 reworded and renumbered 2.3 PC 1.3 reworded and renumbered 2.4 PC 2.1 reworded and renumbered 3.1 PC 2.2 renumbered 3.3 PC 3.1 reworded and renumbered to 2.1 PC 3.2 reworded and renumbered to 2.4 PC 4.1 reworded PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT054	Operate and control chloramination processes.	Superseded	1	Superseded by NWPTRT024 Operate and control chloramination processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT025	Monitor and operate chlorine dioxide processes	Current	1	NWPTRT055 Operate chlorine dioxide processes.	E	Title changed Application reworded Elements 1 & 2 reworded PC 1.1 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 reworded PC 3.1 reworded PC 3.2 deleted PC 3.3 reworded and renumbered to 3.2 PC 4.1 reworded PC 4.2 replaced PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT055	Operate chlorine dioxide processes.	Superseded	1	Superseded by NWPTRT025 Monitor and operate chlorine dioxide processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT026	Monitor and operate ozone processes	Current	1	NWPTRT056 Operate and control ozone processes.	E	Title changed Application reworded Element 1 reworded Elements 2 & 3 merged Elements 4 reworded and renumbered to 3 PC 1.1 reworded PC 1.3 reworded PC 2.1 reworded PC 2.2 reworded PC 2.3 replaced PCs 2.4, 2.5 & 2.6 added PC 3.1 reworded and renumbered to 2.4 PC 3.2 reworded and renumbered to 3.1 PC 4.1 reworded and renumbered to 3.2 PC 4.2 deleted PC 4.3 reworded and renumbered to 3.3 PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT056	Operate and control ozone processes.	Superseded	1	Superseded by NWPTRT026 Monitor and operate ozone processes	E	Superseded unit
3	NWPTRT027	Monitor and operate wastewater treatment processes	Current	1	NWPTRT061 Operate and control wastewater processes.	E	Title changed Application reworded Elements 1 & 2 reworded PC 2.1 reworded PC 2.2 replaced PC 2.3 reworded and renumbered to 2.2 PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT061	Operate and control wastewater processes.	Superseded	1	Superseded by NWPTRT027 Monitor and operate wastewater treatment processes	E	Superseded unit
3	NWPTRT028	Operate and control reclaimed water irrigation	Current	1	NWPTRT062 Operate and control reclaimed water irrigation.	E	Application reworded PC 1.1 reworded PC 1.2 reworded PC 3.1 reworded PC 3.2 reworded PC 5.1 reworded PC 5.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT062	Operate and control reclaimed water irrigation.	Superseded	1	Superseded by NWPTRT028 Operate and control reclaimed water irrigation	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT029	Monitor and operate pre-treatment processes	Current	1	NWPTRT071 Operate and control pre-treatment processes.	E	Title changed Application reworded Element 1 reworded Element 3 reworded Element 4 renumbered to 3 PC 1.1 reworded PC 1.2 deleted PC 1.3 reworded and renumbered to 1.2 PC 1.4 reworded and renumbered to 1.3 PC 2.1 reworded PC 2.2 deleted PC 2.3 reworded and renumbered to 2.2 PC 2.4 merged with 4.1 to make new 3.1 PC 2.5 deleted PC 3.3 deleted PC 4.1 reworded and renumbered to 3.1 PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT071	Operate and control pre-treatment processes.	Superseded	1	Superseded by NWPTRT029 Monitor and operate pre-treatment processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT030	Operate and control odour removal processes	Current	1	NWPTRT072 Operate and control odour removal processes.	E	Application reworded Elements 1 & 3 reworded PC 1.1 reworded and renumbered to 2.4 PC 1.2 reworded and renumbered to 2.2 PC 2.1 reworded and renumbered to 1.2 PC 2.2 reworded and renumbered to 2.1 PC 2.3 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT072	Operate and control odour removal processes.	Superseded	1	Superseded by NWPTRT030 Operate and control odour removal processes	E	Superseded unit
3	NWPTRT036	Operate and control activated sludge processes	Current	1	NWPTRT081 Operate and control activated sludge processes.	E	Application reworded Element 1 reworded PC 1.3 reworded PC 2.1 reworded PCs 2.2 & 2.3 merged and renumbered to 2.3 PC 2.4 deleted PC 2.3 reworded PC 2.4 reworded PC 2.5 reworded and renumbered to 2.2 PCs 2.6 & 2.7 merged and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT081	Operate and control activated sludge processes.	Superseded	1	Superseded by NWPTRT036 Operate and control activated sludge processes	E	Superseded unit
3	NWPTRT037	Operate and control nutrient removal processes	Current	1	NWPTRT082 Operate and control nutrient removal processes.	E	Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded and renumbered to 2.2 PC 2.1 reworded and renumbered to 1.2 PC 2.2 reworded and renumbered to 1.3 PC 2.3 reworded and renumbered to 2.1 PC 2.4 reworded and renumbered to 2.3 PC 2.5 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT082	Operate and control nutrient removal processes.	Superseded	1	Superseded by NWPTRT037 Operate and control nutrient removal processes	E	Superseded unit
3	NWPTRT038	Operate and control fixed film processes	Current	1	NWPTRT083 Operate and control aerobic bioreactor processes.	E	Title changed Application reworded Element 1 reworded PC 1.1 reworded PC 1.2 reworded and renumbered to 2.2 PC 2.1 reworded and renumbered to 1.2 PC 2.2 reworded and renumbered to 1.3 PC 2.3 reworded and renumbered to 2.1 PC 2.4 reworded and renumbered to 2.3 PC 2.5 reworded and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT083	Operate and control aerobic bioreactor processes.	Superseded	1	Superseded by NWPTRT038 Operate and control fixed film processes	E	Superseded unit
3	NWPTRT039	Operate and control solids handling processes	Current	1	NWPTRT091 Operate and control solids handling processes.	E	Application reworded PC 1.2 reworded PC 2.1 reworded PC 2.2 reworded PC 3.1 reworded PC 3.4 reworded and renumbered to 4.1 PC 4.1 replaced PC 4.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT091	Operate and control solids handling processes.	Superseded	1	Superseded by NWPTRT039 Operate and control solids handling processes	E	Superseded unit
3	NWPTRT040	Operate and control digestion processes	Current	1	NWPTRT092 Operate and control digestion processes.	E	Application reworded Element 1 reworded PC 1.2 reworded PC 2.1 reworded PCs 2.2 & 2.3 merged and renumbered to 2.3 PC 2.4 deleted PC 2.5 reworded and renumbered to 2.2 PCs 2.6 & 2.7 merged and renumbered to 2.4 PC 3.1 reworded PC 3.2 reworded Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT092	Operate and control digestion processes.	Superseded	1	Superseded by NWPTRT040 Operate and control digestion processes	E	Superseded unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT046	Operate and control incineration processes	Current	1	NWPTRT094 Operate and control incineration processes.	E	Application reworded Element 3 reworded PC 1.1 reworded PC 1.3 reworded PC 1.4 deleted PC 2.1 reworded PC 2.4 reworded PC 3.1 reworded PC 3.2 reworded PE and KE reviewed and updated Assessment conditions updated.
3	NWPTRT094	Operate and control incineration processes.	Superseded	1	Superseded by NWPTRT046 Operate and control incineration processes	E	Superseded unit
3	NWPTRT047	Monitor, operate and control lagoon processes	Current	1	NWPTRT101 Operate and control lagoon processes.	E	Title changed Application reworded Elements 1, 2 & 3 reworded PC 1.3 reworded PC 2.1 reworded PCs 2.2 & 2.3 merged and renumbered to 2.2 PC 2.4 reworded and renumbered to 2.3 PC 2.5 deleted PCs 2.6 & 2.7 merged and renumbered to 3.2 PC 3.1 reworded and renumbered to 3.3 PC 3.2 reworded and renumbered to 3.4 Range of conditions moved to CVIG under Implementation Advice PE and KE reviewed and updated Assessment conditions updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPTRT101	Operate and control lagoon processes.	Superseded	1	Superseded by NWPTRT047 Monitor, operate and control lagoon processes	E	Superseded unit
3	NWPTRT048	Monitor and operate reclaimed water irrigation	Current	1	New unit	NC	New Unit
3	NWPGEN006	Implement and manage environmental management policies	Current	2	NWP505B Implement and manage environmental management policies, plans, procedures and programs	E	Template update, no content changes.
3	NWPHYD002	Apply principles of open channel hydraulics	Current	2	NWPHYD001 Apply principles of open channel hydraulics	E	Competency field changed from Hydrology to Hydrometric Monitoring
3	NWPHYD003	Develop and maintain ratings	Current	2	Superseded by NWPHYD017 Develop and maintain ratings	E	Competency field changed from Hydrology to Hydrometric Monitoring
3	NWPHYD004	Plan water resource management	Current	2	Superseded by NWPHYD018 Plan water resource management	E	Competency field changed from Hydrology to Hydrometric Monitoring
3	NWPHYD005	Process and report hydrographic time series data	Current	2	Superseded by NWPHYD016 Process and report hydrographic time series data	E	Competency field changed from Hydrology to Hydrometric Monitoring
3	NWPTRT073	Operate and control wastewater sedimentation processes	Superseded	1	Superseded by NWPTRT010 Operate and control sedimentation and clarification processes	E	Merged with NWPTR031 and replaced by NWPTRT010
3	NWPHYD012	Establish monitoring sites	Deleted	1	NWP342A - Commission, decommission and monitor hydrometric sites, stations and facilities	D	Deleted unit.
3	NWPIRR011	Install devices for irrigation systems	Deleted	1	NWP216B - Install basic metering equipment and flow control devices for irrigation systems	D	Deleted unit.
3	NWPIRR012	Construct open earthen channels or drains	Deleted	1	NWP251B - Construct open earthen channels or drains	D	Deleted unit.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
3	NWPIRR013	Construct and install irrigation delivery and stormwater drainage assets	Deleted	1	NWP252B - Construct and install irrigation delivery and stormwater drainage assets	D	Deleted unit.
3	NWPNET012	Use locating devices	Deleted	1	NWP330B - Establish positions of underground utilities using locating devices	D	Deleted unit.
4	NWPCAD021	Coordinate and monitor bulkwater system operations	Current	1	NWPSOU041 Coordinate and monitor bulkwater system operations	E	Application - reworded to reflect current industry requirements Competency Field - changed from Source to Catchment and Dams Elements and Performance Criteria – PC 1.3 reworded to reflect current industry requirements PC 1.4 reworded minor grammatical change PC 2.1 renumbered to PC 2.2 PC 2.1 (new) added to reflect current industry requirements PC 2.2 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 2.3 renumbered to PC 2.4 PC 2.4 reworded to reflect current industry requirements and renumbered to PC 2.5 PC 2.5 reworded to reflect current industry requirements and renumbered to PC 2.6 PC 2.6 renumbered to PC 2.7 PC 2.7 reworded to reflect current industry requirements and renumbered to PC 2.8 PC 3.1 reworded to reflect current industry requirements Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPSOU041	Coordinate and monitor bulkwater system operations	Superseded	1	Superseded by NWPCAD021 Coordinate and monitor bulkwater system operations	E	Superseded Unit
4	NWPCAD022	Coordinate and monitor groundwater system usage	Current	1	NWPSOU053 Coordinate and monitor groundwater system usage	E	Application - reworded to reflect current industry outcomes Competency Field - changed from Source to Catchment and Dams Elements and Performance Criteria – PCs 1.2, 2.1 & 4.3 reworded to reflect current industry outcomes PC 1.3 reworded minor grammatical change PC 3.1 reworded to reflect current industry outcomes and renumbered to PC 3.2 PC new 3.1 added to reflect current industry outcomes PC 3.2 renumbered to PC 3.3 PC 3.4 reworded to reflect current industry outcomes and renumbered to PC 3.4 Foundation Skills - Foundation skills table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPSOU053	Coordinate and monitor groundwater system usage	Superseded	1	Superseded by NWPCAD022 Coordinate and monitor groundwater system usage	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPCAD023	Develop and implement catchment operational plans	Current	1	NWPSOU014 Develop and implement catchment operational plans	E	Application - reworded to reflect current industry outcomes Competency Field - changed from Source to Catchment and Dams Elements and Performance Criteria – Element 1 reworded minor grammatical change PCs 1.2, 1.3 & 3.2 reworded minor grammatical change PC 2.1 reworded to reflect current industry requirements and renumbered to PC 2.2 PC 2.2 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 2.3 renumbered to PC 2.4 PC 2.1 (new) added to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPSOU014	Develop and implement catchment operational plans	Superseded	1	Superseded by NWPCAD023 Develop and implement catchment operational plans	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPCAD024	Implement dam safety plans	Current	1	NWPSOU026 Implement dam safety plans	E	Application - reworded to reflect current industry requirements. Competency Field - changed from Source to Catchment and Dams Elements and Performance Criteria – Element 1 reworded minor grammatical change PCs 2.3 & 2.5 reworded minor grammatical change PCs 2.6 & 2.7 added to reflect current industry requirements PCs 3.2 & 3.5 deleted performance now redundant PC 3.3 renumbered to PC 3.2 PC 3.4 renumbered to PC 3.3 Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPSOU026	Implement dam safety plans	Superseded	1	Superseded by NWPCAD024 Implement dam safety plans	E	Superseded Unit
4	NWPGEN029	Contribute to continuous improvement of quality systems	Current	1	NWPGEN010 Contribute to continuous improvement of quality systems	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 reworded to reflect current industry requirements PC 1.1 reworded minor grammatical change PCs 1.2, 1.3, 1.4, 2.2, 2.3, 2.4, 3.1, 3.2, 3.3, 4.1, 4.2 & 4.3 reworded to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPGEN010	Contribute to continuous improvement of quality systems	Superseded	1	Superseded by NWPGEN029 Contribute to continuous improvement of quality systems	E	Superseded Unit
4	NWPGEN030	Coordinate and monitor the application of environmental plans and procedures	Current	1	NWPGEN005 Coordinate and monitor the application of environmental plans and procedures	E	Application - Application reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 3 & 4 reworded to reflect current industry requirements PCs 1.1 & 1.2 reworded minor grammatical change PC 2.4, 3.1, 3.3, 3.4, 4.1, 4.2, 4.3, 5.1, 5.2 & 5.3 reworded to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPGEN005	Coordinate and monitor the application of environmental plans and procedures	Superseded	1	Superseded by NWPGEN030 Coordinate and monitor the application of environmental plans and procedures	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPGEN031	Develop an operational plan	Current	1	NWPGEN015 Develop an operational plan	E	Title - reworded to reflect current industry outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 PC's rewritten and 2 new PCs added to reflect current industry requirements. Element 2 reworded to reflect current industry requirements. PC's 2.1, 2.3, 3.1, 3.2 & 3.5 reworded to reflect current industry requirements. PC's 2.4, & 2.5 added to reflect current industry requirements. Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages.
4	NWPGEN015	Develop an operational plan	Superseded	1	Superseded by NWPGEN031 Develop an operational plan	E	Superseded Unit
4	NWPGEN032	Ensure compliance with water industry standards, guidelines and legislation	Current	1	NWPGEN002 Ensure compliance with water industry standards, guidelines and legislation	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 3 reworded to reflect current industry requirements PCs 1.2, 1.3, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3 & 3.4 reworded to reflect current industry requirements PCs 2.1 & 2.2 reworded minor grammatical change PC 3.5 deleted to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPGEN002	Ensure compliance with water industry standards, guidelines and legislation	Superseded	1	Superseded by NWPGEN032 Ensure compliance with water industry standards, guidelines and legislation	E	Superseded Unit
4	NWPGEN033	Sample and test trade waste	Current	1	NWPGEN014 Sample and test trade wastewater	E	Title - reworded to reflect current industry outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria - Element 2 reworded to reflect current industry requirements PC 1.1 renumbered to 1.2PC 1.2 renumbered to 1.1PC 1.3 reworded to reflect current industry requirements and renumbered to 1.5 PC 1.4 renumbered to 1.6 New PCs 1.3 & 1.4 added PC 1.5 reworded to reflect current industry requirements and renumbered to 1.7 PC 1.6 reworded to reflect current industry requirements and renumbered to 1.8 PC 1.7 reworded to reflect current industry requirements and renumbered to 1.9 PC 1.8 reworded to reflect current industry requirements and renumbered to 1.10 PC 2.1 reworded to reflect current industry requirements and renumbered to 2.2 PC 2.2 reworded to reflect current industry requirements and renumbered to 2.1 PCs 2.3, 2.4, 2.5, 2.7, 3.1, 3.3, 3.4, 3.5, 3.6 reworded to reflect current industry requirements PC 2.8 reworded to reflect current industry requirements and renumbered to 3.3 PC 2.9 reworded to reflect current industry requirements and renumbered to 2.8 Foundation Skills - table removed. Range of Conditions - moved to CVIG Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPGEN014	Sample and test trade wastewater	Superseded	1	Superseded by NWPGEN033 Sample and test trade waste	E	Superseded Unit
4	NWPHYD006	Measure discharge and process discharge data using a range of methods and equipment	Current	1	NWPHYD014 Measure and process medium and high flows using a range of methods and equipment	E	Title - Title changed to reflect job role outcomes Application - Application reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 reworded to reflect current industry requirements PCs 1.2, 1.3, 1.4, 1.5, 2.1, 2.2, 2.4, 2.5, 3.1,3.2 &4.1 reworded to reflect current industry requirements PC 2.6 merged with PC 2.5PC 2.6 (new) added to reflect current industry requirements PC 3.3 merged with PC 3.2 PC 3.4 renumbered to PC 3.3 PC 3.5 deleted PC 4.2 merged with PC 4.1 PC 4.3 renumbered to PC 4.2 PC 4.4 reworded to reflect current industry requirements and renumbered to PC 4.3 PC 4.5 merged with new PC 4.3 PC 4.4 (new) added Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPHYD014	Measure and process medium and high flows using a range of methods and equipment	Superseded	1	Superseded by NWPHYD006 Measure discharge and process discharge data using a range of methods and equipment	E	Superseded Unit
4	NWPHYD007	Measure discharge using wading method	Current	1	NWPHYD011 Measure and process low and medium flows using area velocity methods	E	Title - reworded to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1 & 4 reworded to reflect current industry requirements PC 1.1 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.1 (new) added to reflect current industry requirements PC 1.2 reworded to reflect current industry requirements and renumbered to PC 1.3 PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.4 PC 1.4 reworded to reflect current industry requirements and renumbered to PC 1.5 PC 1.5 reworded to reflect current industry requirements and renumbered to PC 1.6 PC 1.6 reworded to reflect current industry requirements and renumbered to PC 1.7 PC 1.7 reworded to reflect current industry requirements and renumbered to PC 1.8 PCs 2.1, 2.2, 2.3, 2.4, 3.1, 3.6, 4.3, 4.4 & 4.5 reworded to reflect current industry requirements PC 2.5 reworded minor grammatical change PCs 4.6 & 4.7 added to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPHYD011	Measure and process low and medium flows using area velocity methods	Superseded	1	Superseded by NWPHYD007 Measure discharge using wading method	E	Superseded Unit
4	NWPHYD008	Operate, maintain and decommission monitoring sites	Current	1	NWPHYD013 Operate, maintain and decommission monitoring sites	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1 & 2 reworded minor grammatical change Element 5 reworded to reflect current industry requirements and renumbered to Element 6 Element 6 reworded to reflect current industry requirements and renumbered to Element 5 PCs 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, 3.4, 3.5, 3.7, 4.1, 4.2 & 4.3 reworded to reflect current industry requirements PC 1.5 reworded to reflect current industry requirements and renumbered to PC 1.4 PC 3.6 reworded minor grammatical change PC 5.1 reworded to reflect current industry requirements and renumbered to PC 6.1 PC 5.2 reworded to reflect current industry requirements and renumbered to PC 6.2 PC 5.3 reworded to reflect current industry requirements and renumbered to PC 6.3 PC 6.1 reworded to reflect current industry requirements and renumbered to PC 5.1 PC 6.2 reworded to reflect current industry requirements and renumbered to PC 5.2 PC 6.3 reworded to reflect current industry requirements and renumbered to PC 5.3 PC 6.4 added to reflect current industry requirements Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - wording updated.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPHYD013	Operate, maintain and decommission monitoring sites	Superseded	1	Superseded by NWPHYD008 Operate, maintain and decommission monitoring sites	E	Superseded Unit
4	NWPHYD009	Undertake surveying of monitoring sites	Current	1	NWPHYD015 Undertake surveying of monitoring sites	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1, 1.3, 1.7, 2.1, 2.2, 2.3, 3.1, 3.2 & 4.1 reworded to reflect current industry requirements PC 1.8 deleted PC 3.3 merged with PC 3.2 PC 3.4 reworded to reflect current industry requirements and renumbered to PC 3.3 PC 3.5 reworded to reflect current industry requirements and renumbered to PC 3.4 PC 3.6 reworded to reflect current industry requirements and renumbered to PC 3.5 PC 3.7 deleted PC 4.2 merged with PC 4.1 PC 4.3 reworded to reflect current industry requirements and renumbered to PC 4.2 PC 4.3 (new) added Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPHYD015	Undertake surveying of monitoring sites	Superseded	1	Superseded by NWPHYD009 Undertake surveying of monitoring sites	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPIWS013	Coordinate and monitor pumped rural irrigation systems	Current	1	NWPIRR034 Coordinate and monitor surface water systems	E	Title - changed to reflect unit outcomes. Application - reworded to reflect current industry outcomes Competency Field - changed from Irrigation to Irrigation Water Supply Elements and Performance Criteria – Element 1 & 3 reworded to reflect current industry requirements Element 4 deleted PC's 1.1, 1.3, 1.4, 2.1, 2.3, 2.4, 3.1, 3.2 & 3.3 reworded to reflect current industry requirements PC 1.5 reworded to reflect current industry requirements and renumbered to 1.6 New PC 1.5 added PC 4.1 renumbered to 3.4 Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPIRR034	Coordinate and monitor surface water systems	Superseded	1	Superseded by NWPIWS013 Coordinate and monitor pumped rural irrigation systems	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPIWS014	Coordinate and monitor the operation of irrigation delivery systems	Current	1	NWPIRR033 Coordinate and monitor the operation of irrigation delivery systems	E	Application - reworded to reflect current industry outcomes Competency Field - changed from Irrigation to Irrigation Water Supply Elements and Performance Criteria – PCs 1.1, 1.3, 2.3, 2.4 & 3.1 reworded to reflect current industry requirements PC 1.2 reworded minor grammatical change PCs 2.5 & 2.6 added to reflect current industry requirements PC 3.2 deleted Foundation Skills - table removed. Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPIRR033	Coordinate and monitor the operation of irrigation delivery systems	Superseded	1	Superseded by NWPIWS014 Coordinate and monitor the operation of irrigation delivery systems	E	Superseded Unit
4	NWPNET055	Coordinate and manage maintenance and repair of network assets	Current	1	NWPNET025 Coordinate and manage maintenance and repair of network assets	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1, 2.2, 2.3, 2.4, 3.2 & 4.1 reworded to reflect current industry requirements PC 2.1 reworded minor grammatical change Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPNET025	Coordinate and manage maintenance and repair of network assets	Superseded	1	Superseded by NWPNET055 Coordinate and manage maintenance and repair of network assets	E	Superseded Unit
4	NWPNET056	Coordinate and monitor network asset construction	Current	1	NWPNET033 Coordinate and monitor water asset construction	E	Title - changed to reflect current industry outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria - Element 1 reworded to reflect current industry requirements PCs 1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.10, 2.1, 2.4, 2.5, 3.1, 3.2, 3.3 & 3.4 reworded to reflect current industry requirements PC 2.3 reworded minor grammatical change Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPNET033	Coordinate and monitor water asset construction	Superseded	1	Superseded by NWPNET056 Coordinate and monitor network asset construction	E	Superseded Unit
4	NWPNET040	Maintain and repair network assets for wastewater	Current	2	Superseded by NWPNET023 Maintain and repair network assets for wastewater	E	Performance Evidence – alteration to point 9 and removal of point 12 Knowledge Evidence - alteration to point 12

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPNET057	Establish connections of water and wastewater systems	Current	1	NWPTRD024 Establish connections of water and wastewater systems	E	Application - reworded to reflect current industry outcomes Competency Field - changed from Trade Waste to Networks Elements and Performance Criteria - Element 1 reworded to reflect current industry requirements PCs 2.2, 3.1, 3.4, 5.1 & 5.2 reworded to reflect current industry requirements PC 2.3 deleted PC 2.4 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 4.1 deleted PC 4.2 reworded to reflect current industry requirements and renumbered to PC 4.1 PC 4.3 reworded to reflect current industry requirements and renumbered to PC 4.2 PC 4.4 reworded to reflect current industry requirements and renumbered to PC 4.3 PC 4.4 (new) added to reflect current industry requirements Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRD024	Establish connections of water and wastewater systems	Superseded	1	Superseded by NWPNET057 Establish connections of water and wastewater systems	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPNET058	Optimise network systems	Current	1	NWPNET005 Optimise network systems	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1 & 3 reworded to reflect current industry requirements PCs 1.3, 2.3 & 3.1 reworded to reflect current industry requirements PC 3.2 merged with PC 3.1 PC 3.3 reworded to reflect current industry requirements and renumbered to PC 3.2 Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPNET005	Optimise network systems	Superseded	1	Superseded by NWPNET058 Optimise network systems	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPNET059	Supervise and report on conduit inspections	Current	1	NWPNET017 Supervise and report on conduit inspections	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 2, 3 & 4 reworded to reflect current industry requirements PCs 1.1, 3.2, 3.3, 4.1 & 4.2 reworded to reflect current industry requirements PC 1.3 deleted PC 1.4 reworded to reflect current industry requirements and renumbered to PC 1.3 PC 2.1 deleted PC 2.2 renumbered to PC 2.1 PC 2.3 reworded to reflect current industry requirements and renumbered to PC 2.2 PC 2.4 reworded and renumbered to PC 2.2 Foundation Skills - Foundation skills table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPNET017	Supervise and report on conduit inspections	Superseded	1	Superseded by NWPNET059 Supervise and report on conduit inspections	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPTRD006	Investigate trade waste incidents and non-compliances	Current	1	NWPTRD012 Investigate, rectify and report on trade waste incidents	E	Title - changed to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1, 1.2, 1.3, 2.2, 3.1, 3.4, 4.2 & 5.2 reworded to reflect current industry requirements PC 1.4 deleted PC 1.5 reworded to reflect current industry requirements and renumbered to PC 1.4 Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRD012	Investigate, rectify and report on trade waste incidents	Superseded	1	Superseded by NWPTRD006 Investigate trade waste incidents and non-compliances	E	Superseded Unit
4	NWPTRD007	Monitor trade waste approvals	Current	1	NWPTRD023 Coordinate, implement and report on trade waste monitoring procedures	E	Title - changed to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 added to reflect current industry requirements Element 1 reworded to reflect current industry requirements and renumbered to element 2 Element 2 reworded to reflect current industry requirements and renumbered to element 3 Element 4 added to reflect current industry requirements (moved from NWPTRD001) PC 1.1 reworded to reflect current industry requirements and renumbered to PC 2.2 PC 1.1 (new) added to reflect current industry requirements PC 1.2 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 1.2 (new) added to reflect current industry requirements

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							PC 1.3 reworded to reflect current industry requirements and renumbered to PC 2.4 PC 1.3 (new) added to reflect current industry requirements PC 1.4 reworded to reflect current industry requirements and renumbered to PC 2.5 PC 2.1 renumbered to PC 3.1 PC 2.2 renumbered to PC 3.2 PC 2.3 renumbered to PC 3.3 PC 2.4 renumbered to PC 3.4 PC 2.6 (new) added to reflect current industry requirements PC 1.2 (new) added to reflect current industry requirements PC 4.1 (new) added to reflect current industry requirements PC 4.2 (new) added to reflect current industry requirements PC 4.3 (new) added to reflect current industry requirements PC 4.4 (new) added to reflect current industry requirements PC 4.5 (new) added to reflect current industry requirements Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRD023	Coordinate, implement and report on trade waste monitoring procedures	Superseded	1	Superseded by NWPTRD007 Monitor trade waste approvals	E	Superseded Unit
4	NWPTRD008	Process standard trade waste approvals	Current	1	NWPTRD001 Evaluate, implement and monitor standard low risk trade waste discharge approvals	E	Title - changed to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1, 2 & 3 reworded to reflect current industry requirements Element 4 reworded and moved to Unit NWPTRD007 PCs 1.1, 3.1, 3.2 & 3.3 reworded to reflect current industry requirements PCs 1.2, 1.4, 1.5, 2.1, 2.4, 2.5, 3.4, 4.1, 4.2 & 4.3 deleted

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.3 (new) added to reflect current industry requirements PC 1.4 (new) added to reflect current industry requirements PC 2.2 reworded to reflect current industry requirements and renumbered to PC 2.1 PC 2.3 reworded to reflect current industry requirements and renumbered to PC 2.2 PC 2.3 (new) added to reflect current industry requirement PC 2.4 (new) added to reflect current industry requirement Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRD001	Evaluate, implement and monitor standard low risk trade waste discharge approvals	Superseded	1	Superseded by NWPTRD008 Process standard trade waste approvals	E	Superseded Unit
4	NWPTRT021	Operate and control desalination processes	Current	2	NWPTRT044 Operate and control desalination processes	E	Knowledge Evidence - added 1 item (minor upgrade).
4	NWPTRT040	Operate and control digestion processes	Current	2	NWPTRT092 Operate and control digestion processes	E	Performance Evidence - item 4 reworded and moved to knowledge evidence. Additional detail moved to CVIG.
4	NWPTRT049	Assess and improve activated sludge and biological nutrient removal processes	Current	1	NWPTRT084 Assess and improve activated sludge and nutrient removal processes	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 reworded to reflect current industry requirements PCs 1.1 & 2.2 reworded to reflect current industry requirements PC 1.2 merged with PC 2.2

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.4 reworded to reflect current industry requirements and renumbered to PC 1.3 PC 1.5 reworded to reflect current industry requirements and renumbered to PC 2.1 PC 1.6 reworded to reflect current industry requirements and renumbered to PC 2.2 PC 2.1 deleted PC 2.5 & 2.6 added to reflect current industry requirements PC 3.1 and PC 3.2 merged to reflect current industry requirements and renumbered to PC 3.3 PC 3.1 (new) & 3.2 (new) added to reflect current industry requirements Foundation Skills - table removed Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT084	Assess and improve activated sludge and nutrient removal processes	Superseded	1	Superseded by NWPTRT049 Assess and improve activated sludge and biological nutrient removal processes	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPTRT050	Assess and improve anaerobic digestion processes	Current	1	NWPTRT093 Assess and improve anaerobic digestion processes	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1, 2.1, 2.2, 2.3 & 3.1 reworded to reflect current industry requirements PCs 1.2 & 4.1 deleted PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.4 reworded to reflect current industry requirements and renumbered to PC 1.3 PC 2.4 added to reflect current industry requirements PC 4.2 reworded to reflect current industry requirements and renumbered to PC 4.1 PC 4.3 reworded to reflect current industry requirements and renumbered to PC 4.2 Foundation Skills - table removed Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT093	Assess and improve anaerobic digestion processes	Superseded	1	Superseded by NWPTRT050 Assess and improve anaerobic digestion processes	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPTRT057	Assess and improve coagulation and flocculation processes	Current	1	NWPTRT011 Assess and improve chemical dosing process	E	Title - changed to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1, 2 & 3 reworded to reflect current industry requirements PCs 1.1, 1.2, 1.3, 2.1, 2.3, 3.1 & 3.3 reworded to reflect current industry requirements PC 2.2 reworded minor grammatical change Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages Text clarified without changing requirements
4	NWPTRT011	Assess and improve chemical dosing process	Superseded	1	Superseded by NWPTRT057 Assess and improve coagulation and flocculation processes	E	Superseded Unit
4	NWPTRT058	Assess and improve desalination processes	Current	1	NWPTRT045 Assess and improve desalination processes	E	Application - Application reworded to reflect current industry outcomes Elements and Performance Criteria – Elements 1 & 2 reworded to reflect current industry requirements Element 3 reworded to reflect current industry requirements and renumbered to element 4 Element 3 (new) added to reflect current industry requirements PCs 1.1 & 3.1 reworded to reflect current industry requirements PC 1.2 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.2 PCs 1.4 & 2.1 deleted PCs 1.4 (new), 2.1 (new), 3.1 (new) & 3.2 (new) added to reflect current industry requirements

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							PC 2.2 reworded to reflect current industry requirements and renumbered to PC 2.3 PC 2.3 reworded to reflect current industry requirements and renumbered to PC 4.1 PC 2.4 added to reflect current industry requirements PC 3.3 reworded to reflect current industry requirements and renumbered to PC 4.2 Foundation Skills - table removed Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT045	Assess and improve desalination processes	Superseded	1	Superseded by NWPTRT058 Assess and improve desalination processes	E	Superseded Unit

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPTRT059	Assess and improve granular media filters	Current	1	NWPTRT042 Assess and improve granular media filters	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1, 2.2 & 2.3 reworded to reflect current industry requirements PC 1.2 merged with PC 1.1 PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.4 renumbered to PC 1.3 PC 2.4 added to reflect current industry requirements PC 3.2 reworded minor grammatical change Foundation Skills - table removed Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT042	Assess and improve granular media filters	Superseded	1	Superseded by NWPTRT059 Assess and improve granular media filters	E	Superseded Unit
4	NWPTRT060	Assess and improve membrane bioreactor processes	Current	1	New	NC	New Unit of Competency
4	NWPTRT063	Assess and improve membrane filters	Current	1	New	NC	New Unit of Competency

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4	NWPTRT064	Assess and improve sedimentation processes	Current	1	NWPTRT032 Assess and improve sedimentation processes	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PCs 1.1 & 2.3 reworded to reflect current industry requirements PC 2.2 reworded minor grammatical change PC 2.4 added to reflect current industry requirements Foundation Skills - table removed Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT032	Assess and improve sedimentation processes	Superseded	1	Superseded by NWPTRT064 Assess and improve sedimentation processes	E	Superseded Unit
4	NWPTRT065	Assess and improve treatment for removal of microorganisms in drinking water and recycled water	Current	1	NWPTRT051 Assess and improve treatment for pathogen removal	E	Title - changed to reflect job role outcomes Application - reworded to reflect current industry outcomes Elements and Performance Criteria – Element 1 reworded to reflect current industry requirements PC 1.1 reworded to reflect current industry requirements and renumbered to PC 1.2 PC 1.1 (new) added to reflect current industry requirements PC 1.2 reworded to reflect current industry requirements and renumbered to PC 1.3 PC 1.3 reworded to reflect current industry requirements and renumbered to PC 1.4 PC 1.4 reworded to reflect current industry requirements and renumbered to PC 1.5 PC 1.5 reworded to reflect current industry requirements and renumbered to PC 1.6 PC 1.7 reworded to reflect current industry requirements and renumbered to PC 1.8 PC 3.1 reworded to reflect current industry requirements Foundation Skills - table removed

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT051	Assess and improve treatment for pathogen removal	Superseded	1	Superseded by NWPTRT065 Assess and improve treatment for removal of microorganisms in drinking water and recycled water	E	Superseded Unit
4	NWPTRT066	Assess and improve wastewater processes to control microbial impacts	Current	1	NWPTRT085 Assess and improve wastewater processes and microbial impacts	E	Application - reworded to reflect current industry outcomes Elements and Performance Criteria – PC 2.4 deleted PC 2.4 (new) added to reflect current industry requirements PC 3.2 reworded to reflect current industry requirements Foundation Skills - table removed Range of Conditions - reworded and moved to Companion Volume Implementation Guide Performance Evidence - reviewed and updated according to elements and performance criteria Knowledge Evidence - reviewed and updated according to elements and performance criteria Assessment Conditions - updated to comply with standards for training packages
4	NWPTRT085	Assess and improve wastewater processes to control microbial impacts	Superseded	1	Superseded by NWPTRT066 Assess and improve wastewater processes to control microbial impacts	E	Superseded Unit
4	NWPTRT067	Assess and optimise chemical dosing processes in wastewater	Current	1	New	NC	New Unit of Competency

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
4.1	NWPIRR035	Coordinate and monitor the operation of drainage systems	Deleted	1	NWP427B - Coordinate and monitor the operation of drainage systems	D	Deleted unit due to zero enrolments.
4.3	NWPTRT019	Operate and control granular media filters	Current	2	NWPTRT041 Operate and control granular media filters	E	Updated application with correct information.
5	NWPGEN034	Operate and maintain flood warning sites	Current	1	New Unit	NC	New Unit of Competency
5	NWPNET039	Maintain and repair network assets for drinking water	Superseded	1	Superseded by NWPNET061 Maintain and repair network assets for drinking water	E	Superseded Unit
5	NWPNET060	Clean networks using air scouring, chemical or swabbing techniques	Current	1	New Unit	NC	New Unit of Competency
5	NWPNET061	Maintain and repair network assets for drinking water	Current	1	NWPNET039 Maintain and repair network assets for drinking water.	E	Elements and Performance Criteria - new 2.4 & 2.6 PCs added; old PCs 2.4 & 2.5 renumbered. Performance Evidence - 1 PE added Knowledge Evidence - 2 KE added Text clarified without changing requirements
5	NWPNET062	Maintain network assets using high pressure water systems	Current	1	New Unit	NC	New Unit of Competency
5	NWPNET063	Use digital imaging equipment in the field	Current	1	New Unit	NC	New Unit of Competency
5	NWPNET064	Control electrical risk on network pipes	Current	1	NWPNET020 Control electrical risk on metallic pipes	E	Elements and Performance Criteria - Element 2 reworded. PCs 1.2, 2.1, 3.1 & 3.2 reworded for clarity; PC 2.2 replaced; PC 2.3 deleted; PC 2.4 reworded and renumbered to 2.2. Performance Evidence - PE 1 & 6 merged; PE 5 & 6 deleted.

Training Package Release	Code	Title	Usage	Unit Release	Mapping	E/NE/NC/D	Comment
							Knowledge Evidence - KE 5 & 8 reworded; KE 4 deleted. Text clarified without changing requirements
5	NWPNET065	Perform odour and infiltration investigations	Current	1	NWPNET035 Perform odour and infiltration investigations	E	Elements and Performance Criteria - PC 2.2 reworded for clarity; PCs 2.3 & 3.3 replaced; PC 3.4 reworded and renumbered 3.3. Text clarified without changing requirements

ATTACHMENT D: SUMMARY OF QUALIFICATION LICENSING/REGULATORY INFORMATION

There are no specific regulatory or licensing requirements that apply to the water industry operators.

There is currently an Operator Certification program that is in place that uses the Units of Competency contained in the following qualifications:

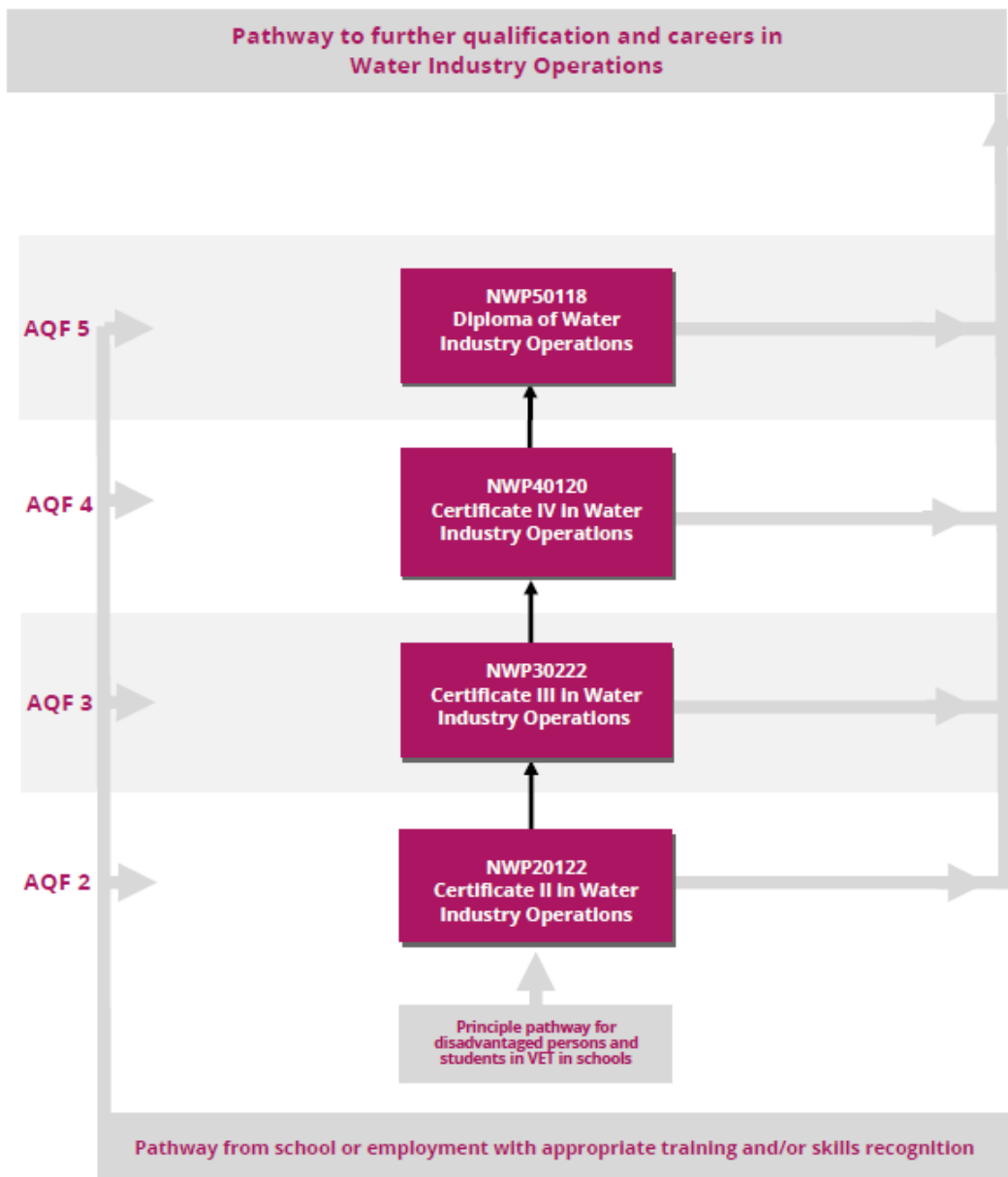
- Certificate II in Water Industry Operations
- Certificate III in Water Industry Operations
- Certificate IV in Water Industry Operations

The Operator Certification is administered by the Water Industry Operators Association (WIOA)

Jurisdiction	Certification Body	Contacts
All states/territories	Water Industry Operators Association	Mr George Wall

ATTACHMENT E: TRAINING PACKAGE PATHWAYS ADVICE

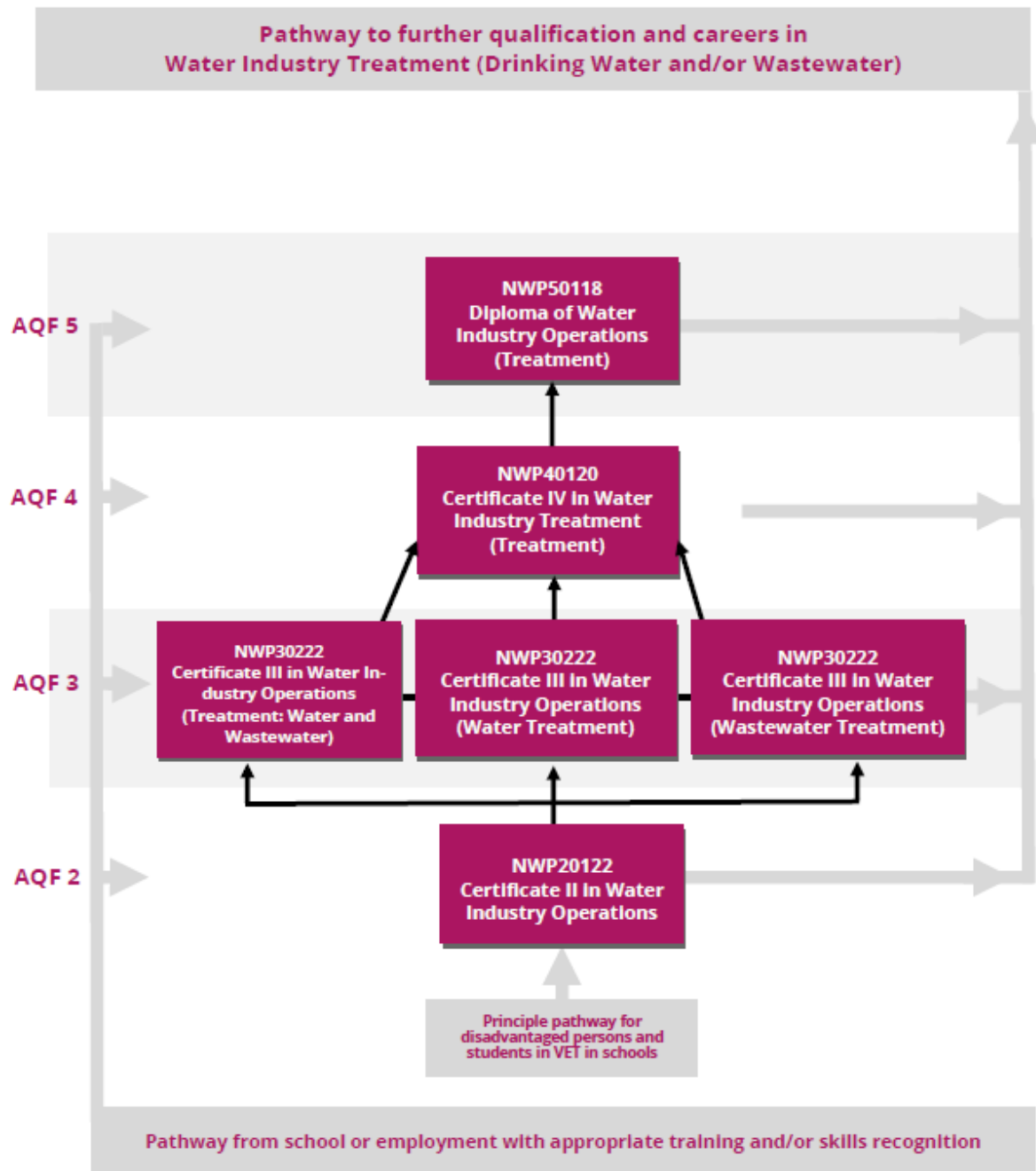
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

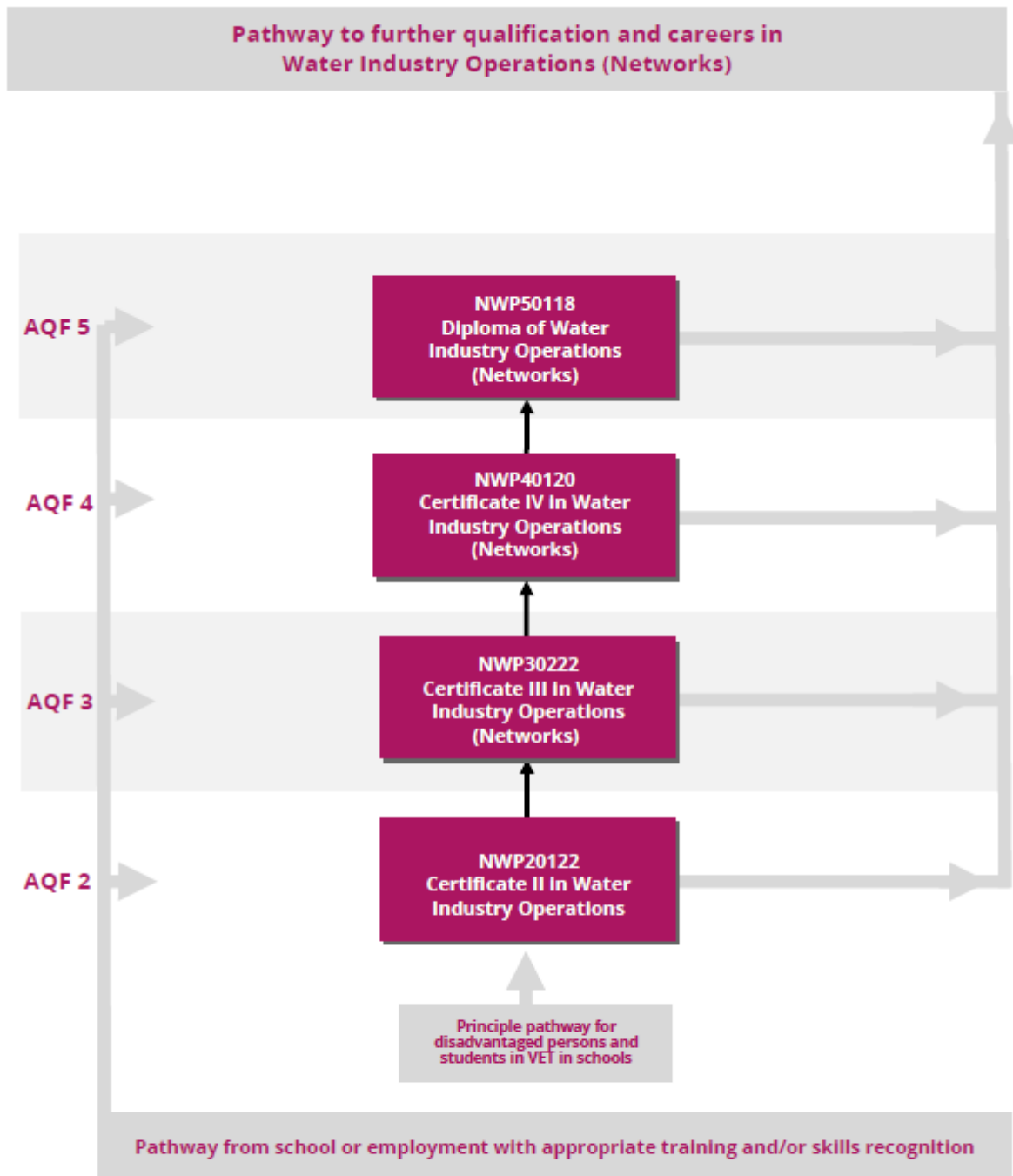
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

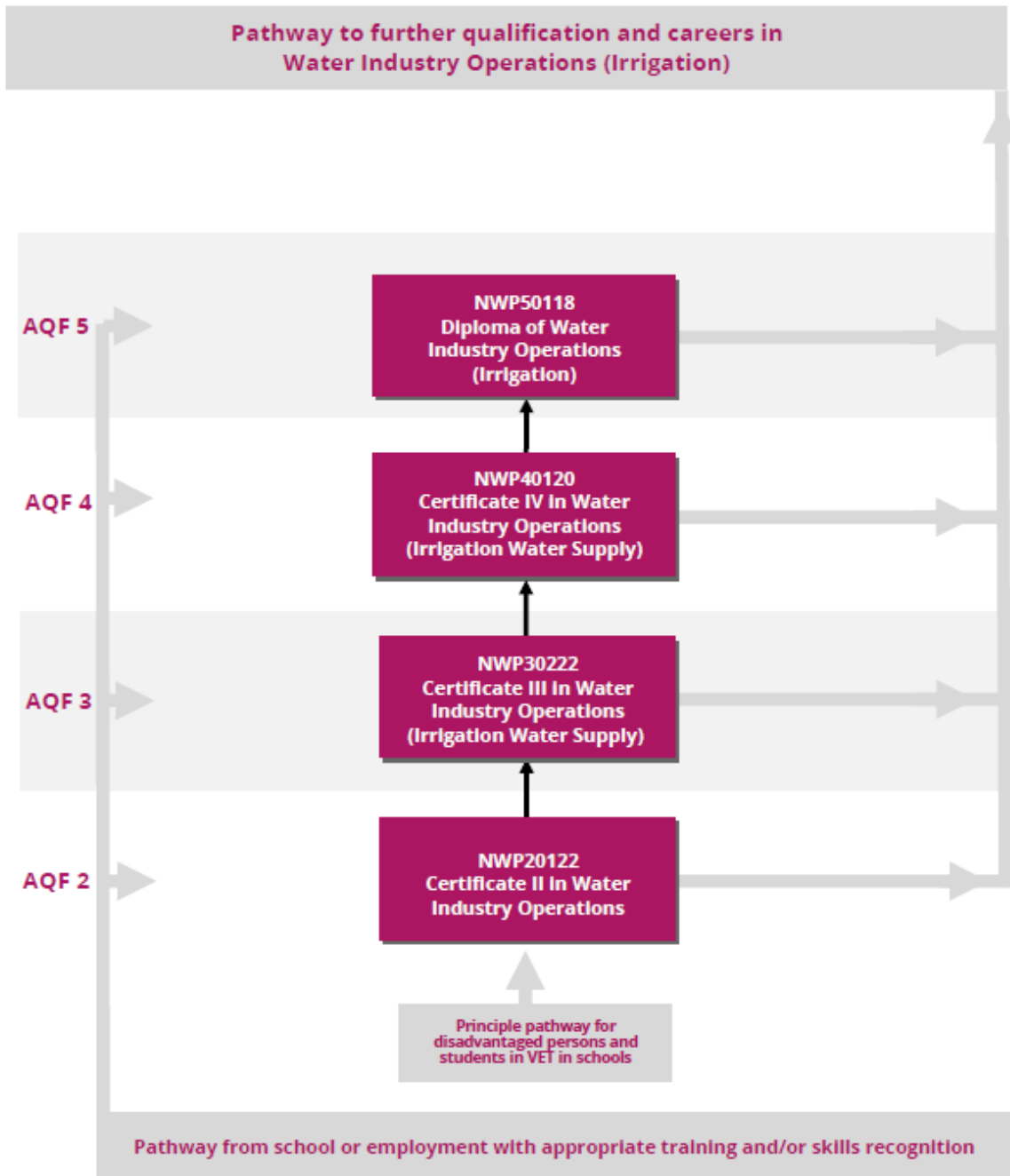
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

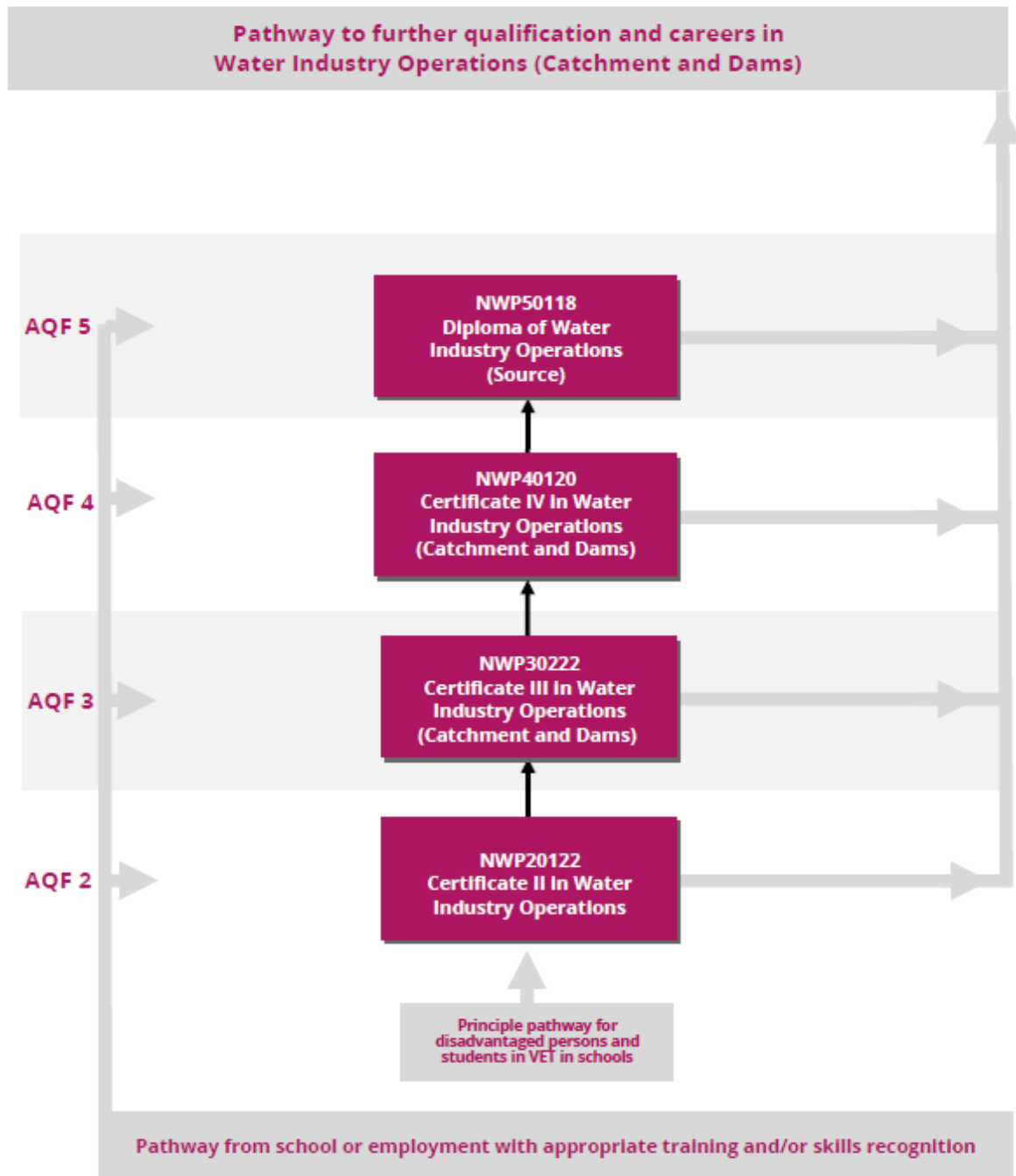
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

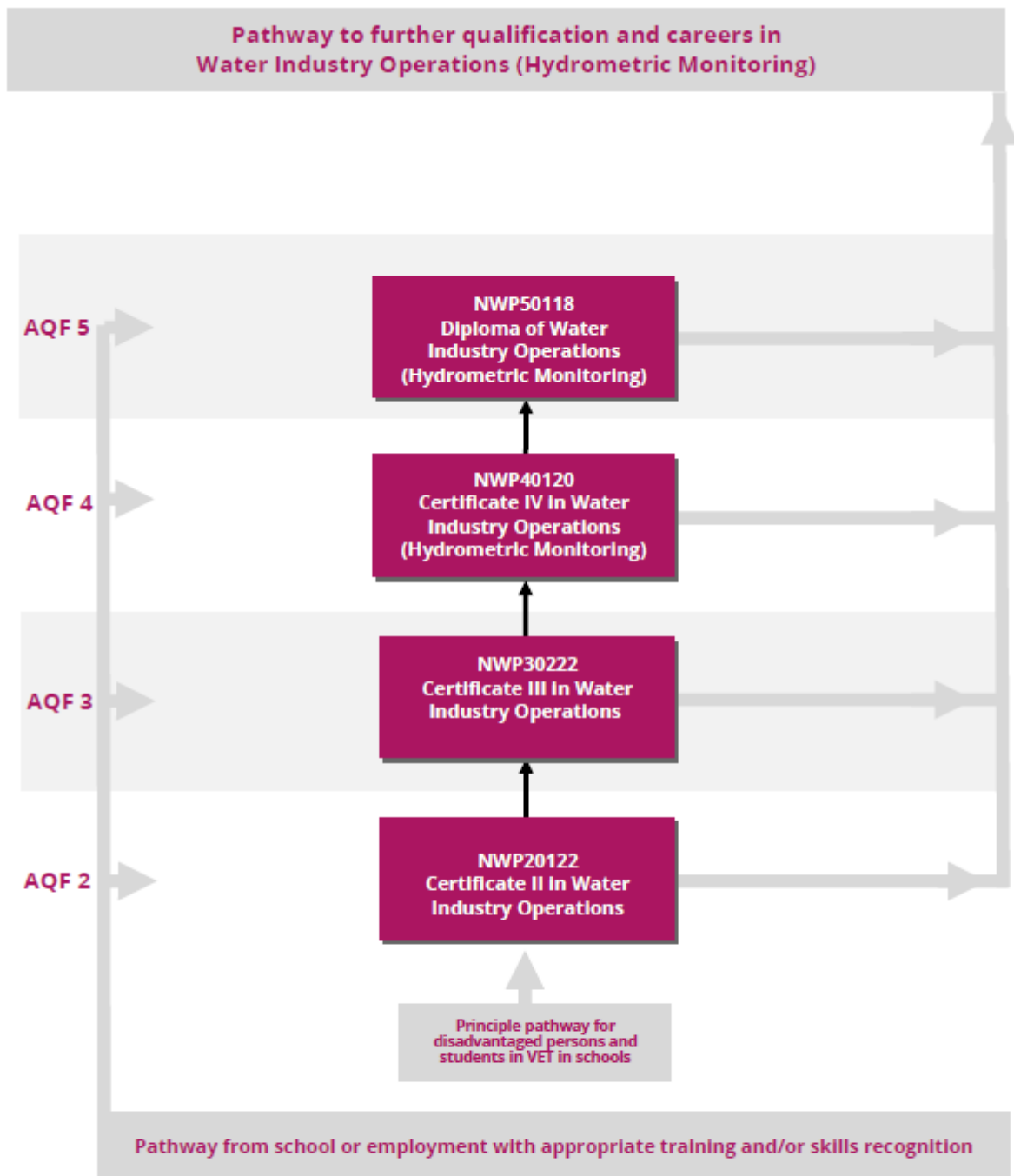
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

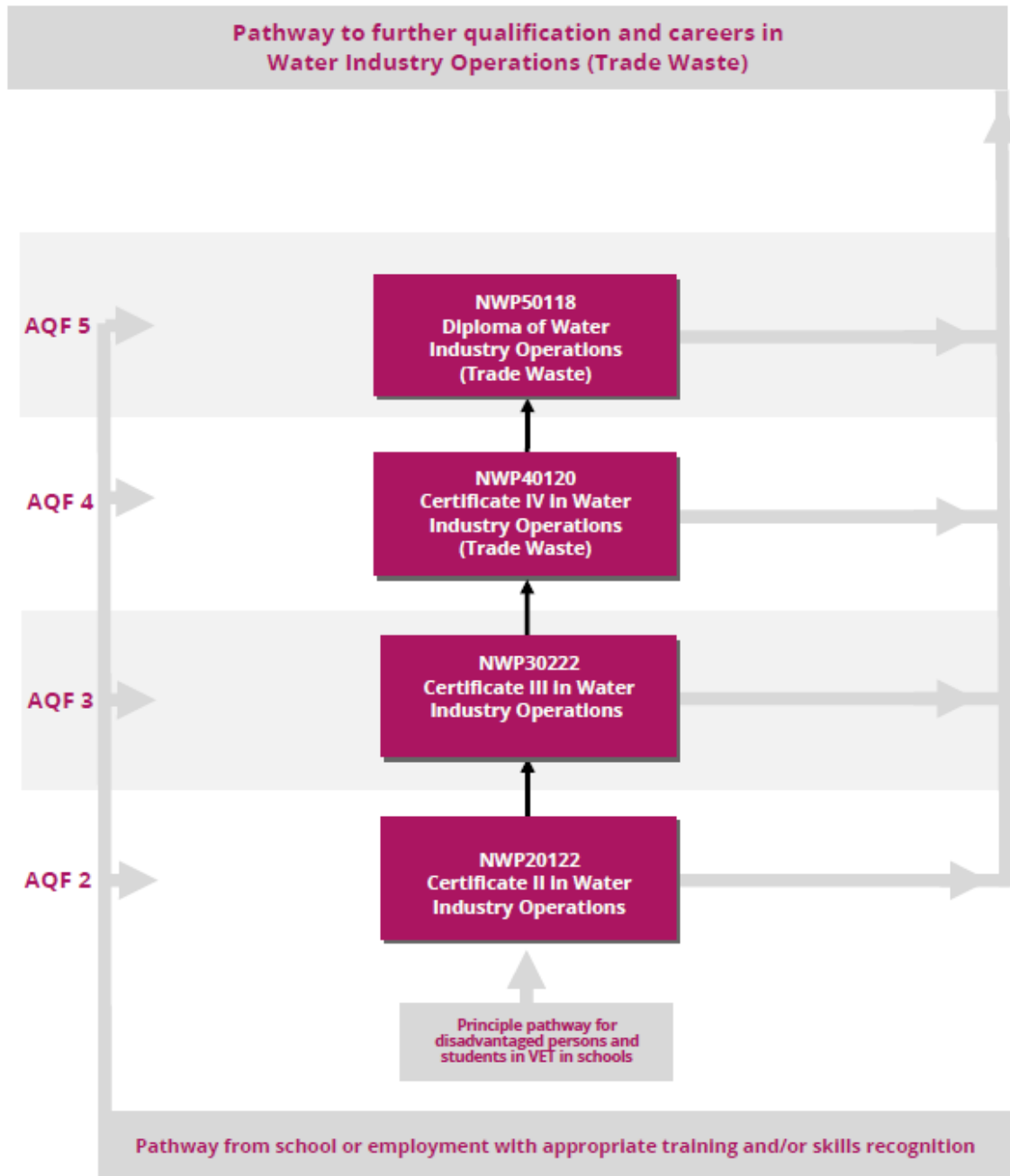
Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

Water Industry Operations Pathways



AQF Pathways Outcomes

- AQF 5 Contributes to requirements for employment in managerial positions
- AQF 4 Contributes to requirements for employment in supervisory positions
- AQF 3 Contributes to requirements for employment in advanced operations
- AQF 2 Contributes to requirements for employment in operations positions
- AQF 1 Contributes to requirements for employment in entry level positions

NWP Skill Set Pathways

Skill Set	Pathways Information
NWPSS00001 Advanced certification bridging	This Skill Set can be a pathway to NWP30222 Certificate III in Water Industry Operations.
NWPSS00002 Catchment operations	This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations.
NWPSS00003 Certification bridging	This Skill Set can be a pathway to NWP20122 Certificate II in Water Industry Operations.
NWPSS00004 Dam operations	This Skill Set can be a pathway to NWP30222 Certificate III in Water Industry Operations.
NWPSS00007 Regional treatment operations	This Skill Set can be a pathway to NWP30222 Certificate III in Water Industry Operations.
NWPSS00011 Dam Operations and Maintenance Skill Set	This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations.
NWPSS00012 Environmental Procedures Skill Set	This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations.
NWPSS00013 Hydrometric Monitoring Basics Skill Set	This Skill Set can be a pathway to NWP40120 Certificate IV in Water Industry Operations.
NWPSS00014 Water Sampling Skill Set	This Skill Set can be a pathway to NWP30222 Certificate III in Water Industry Operations.
NWPSS00015 Flood Warning Site Operator Skill Set	This Skill Set can be a pathway to NWP30222 Certificate III in Water Industry Operations.

ATTACHMENT F: IMPLEMENTATION ADVICE

Implementation Advice	
All Units:	
• Potable water to be changed to drinking water • Industry standards are interchangeable with industry guidelines.	
NWPCAD001 Respond to blue-green algae outbreaks	
blue-green algae outbreak areas may include:	• billabongs • dams • lagoons • rivers, streams, creeks
NWPCAD003 Identify and confirm blue-green algae outbreaks	
types of sample techniques may include:	• concentrated • grab • integrated
NWPGEN017 Apply the risk management principles of the water industry standards, guidelines and legislation	
guidelines and industry standards may include:	• Australian Drinking Water Guidelines (ADWG) • Australian Guidelines for Water Recycling (AGWR) • Australian Sewage Quality Management Guidelines • HACCP • ISO 14001 Environmental management systems • ISO 9000 series Quality management and quality assurance standards
NWPGEN022 Perform laboratory testing	
off-site/laboratory complex tests for wastewater may include:	• alkalinity • chemical oxygen demand (COD) and biochemical oxygen demand (BOD) • chlorine • colorimetric comparators • colour • filamentous organisms • free ammonia • gravimetric analysis • microscopy • mixed liquor suspended solids (MLSS) • nutrient testing • potentiometric analysis • redox • settle ability • sludge volume index • spectrophotometric analysis

Implementation Advice

	• total organic carbon • volumetric analysis
off-site/laboratory complex tests for drinking water may include:	• alkalinity • aluminium • chlorine • colorimetric comparators • colour redox • fluoride • free ammonia • gravimetric analysis • hardness • iron • jar testing • manganese • microscopy • nutrient testing • potentiometric analysis • silt density index • spectrophotometric analysis • taste and odour • UV absorbance and transmittance • volumetric analysis
NWPGEN029 Contribute to continuous improvement of quality systems	
guidelines and industry standards may include:	• Australian Drinking Water Guidelines (ADWG) • Australian Guidelines for Water Recycling (AGWR) • Australian Sewage Quality Management Guidelines • HACCP • ISO 14001 Environmental management systems • ISO 9000 series Quality management and quality assurance standards
NWPGEN032 Ensure compliance with water industry standards, guidelines and legislation	
guidelines and industry standards may include:	• Australian Drinking Water Guidelines (ADWG) • Australian Guidelines for Water Recycling (AGWR) • Australian Sewage Quality Management Guidelines • HACCP • ISO 14001 Environmental management systems • ISO 9000 series Quality management and quality assurance standards
NWPGEN033 Sample and test trade wastewater	
field testing may include:	• colour • conductivity • metals • odour • pH • sulphides

Implementation Advice

	• temperature • visual assessment
sampling processes may include:	• automatic ○ flow proportional composites ○ time proportional composites • discreet manual
NWPHYD006 Measure discharge and process discharge data using a range of methods and equipment	
methods may include:	• acoustic Doppler current profiler (ADCP) • area slope method • area velocity method • dilution gauging • Doppler velocity meter • electromagnetic current meter • float gauging • mechanical current meter
NWPHYD007 Measure discharge using wading method	
area velocity methods may include:	• acoustic Doppler current profiler • Doppler velocity meter • electromagnetic current meter • mechanical current meter
NWPHYS001 Identify and analyse information technology for hydrographic surveys	
deliverables may include:	• M13 Reports of survey • S5 • S8
international standards include:	• IHO S-100 • IHO S-102 • IHO S-2 • IHO S-4 • IHO INT1
NWPNET040 Maintain and repair network assets for wastewater	
network assets may include:	• connections • pump stations • sewer mains
NWPNET060 Clean networks using air scouring, chemical or swabbing techniques	
network water main assets may include:	• drinking water network mains and services • recycled water mains and services • wastewater rising mains
NWPNET061 Maintain and repair network assets for drinking water	
network assets may include:	• bore fields • network pump stations • network storages

Implementation Advice

	network water mains and services
NWPNET064 Control electrical risk on network pipes	
network pipes may include:	- asbestos cement - brass - cast iron - copper pipe - ductile iron - galvanised pipe - mild steel - stainless steel
NWPTRD003 Evaluate, implement and monitor high risk trade waste discharge approvals	
inoculations may include:	- diphtheria - hepatitis A & B - polio - Q fever - tetanus
NWPTRD004 Implement and manage trade waste policies and plans	
inoculations may include:	- diphtheria - hepatitis A and B - polio - Q fever - tetanus
NWPTRD005 Develop and modify trade waste policies and plans	
inoculations may include:	- diphtheria - hepatitis A and B - polio - Q fever - tetanus
industry standards include:	ISO 14001
NWPTRD006 Investigate trade waste incidents and non-compliances	
inoculations may include:	- diphtheria - hepatitis A and B - polio - Q fever - tetanus
industry standards include:	ISO 14001 Certification
NWPTRD007 Monitor trade waste approvals	
inoculations may include:	- diphtheria - hepatitis A and B - polio - Q fever - tetanus

Implementation Advice

NWPTRD008 Process standard trade waste approvals

inoculations may include:	• diphtheria • hepatitis A and B • polio • Q fever • tetanus
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NWPTRT005 Monitor and operate water treatment processes

current processes may include:	• disinfection • pre-treatment • post-treatment • separation
separation processes may include:	• desalination • dissolved air flotation • granular media filtration • membrane filtration • sedimentation-clarification
post-treatment processes may include:	• BAC • fluoride • ozone • stabilisation
pre-treatment processes may include:	• chemical dosing • coagulation • iron manganese • pH adjustment • pre-screening

NWPTRT006 Monitor and operate fluoride addition processes

types of fluoridation processes may include:	• fluorosilicic acid • sodium fluoride • sodium fluorosilicate
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NWPTRT008 Operate and control iron and manganese removal processes

processes may include:	• ion exchange • manganese coated filters • oxidation • sequestering
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NWPTRT016 Operate and control dissolved air flotation processes

DAF process applications may include:	• for drinking water ○ clarification ○ combined filtration and clarification (DAFF) • for wastewater ○ sludge thickening • for industrial water ○ fat, oils and grease removal ○ metal separation
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Implementation Advice

NWPTRT022 Monitor and operate hypochlorite disinfection processes

dosing procedures may include:	• chlorinator shutdown, start up and isolation • dosing pump checks • leak testing • purging operations
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NWPTRT027 Monitor and operate wastewater treatment processes

processes may include:	• primary processes: ○ grit removal ○ odour control ○ primary sedimentation ○ screening • secondary processes: ○ activated sludge ○ lagoons ○ nutrient removal ○ trickling filters • tertiary processes: ○ clarification ○ lagoons ○ membrane filters
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NWPTRT036 Operate and control activated sludge processes

processes may include:	• Bathurst Box • intermittent decanted extended aeration (IDEA) • oxidation ditches • sequencing batch reactors (SBR)
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NWPTRT040 Operate and control digestion processes

anaerobic processes may include:	• anaerobic digesters • high rate anaerobic lagoon/bulk volume fermenter • upflow anaerobic sludge blanket (UASB) plant
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NWPTRT048 Monitor and operate reclaimed water irrigation

irrigation system infrastructure may include:	• centre pivot irrigators • drip/trickle irrigation • flood irrigation • spray/sprinkler irrigation • travelling linear irrigators
monitoring of reclaimed water usage may include:	• groundwater monitoring bore levels • location of irrigated site and volume of applied irrigated water • usage and runoff volumes • water quality data
water recycling guidelines may include:	• aerosol drift from spray irrigation systems • crops/pastures for grazing by dairy cattle • food crops/plants • public access restrictions

Implementation Advice

NWPTRT049 Assess and improve activated sludge and nutrient removal processes

activated sludge processes may include:	• Bathurst Box • intermittent decant extended aeration (IDEA) • oxidation ditches • sequencing batch reactors (SBR)
nutrient removal processes may include:	• aerobic • anaerobic • anoxic • biological nutrients removal (BNR) • pre-fermenters

NWPTRT050 Assess and improve anaerobic digestion processes

anaerobic digestion performance parameters may include:	• alkalinity • chemical oxygen demand (COD) • gas analysis • macro nutrients, including nitrogen or phosphorus • micronutrients, including cobalt or iron • pH • redox potential • settling tests • solids • temperature • volatile fatty acids
principles of anaerobic treatment processes may include:	• design parameters: ○ chemical oxygen demand (COD) removal ○ detention time ○ hydraulic loading rate ○ intended plant configuration ○ mixing strategy ○ organic loading rate ○ recycle flow rates ○ solids retention time ○ temperature ○ volatile fatty acids to alkalinity ratio ○ volatile solids reduction • feed water quality: ○ chemical oxygen demand (COD) ○ inhibitory compounds ○ nutrients ○ pH and alkalinity ○ salt ○ temperature

Implementation Advice

	○ total and suspended solids
range of relevant operational protocols may include:	• investigation • measuring and testing
types of anaerobic treatment processes may include:	• anaerobic digesters • bulk volume fermenters (BVF) • fluidised bed reactors • high-rate anaerobic lagoons (HRAL) • up flow anaerobic sludge blanket reactors (UASB)
NWPTRT057 Assess and improve coagulation and flocculation processes	
chemical addition plant and equipment may include:	• chemical injection equipment • dosing pumps • flow meters • mixing equipment • particle counter • streaming current detector • turbidity meter
range and characteristics of chemicals used in chemical addition processes may include:	• aluminium chlorohydrate (ACH) • aluminium sulphate • caustic soda • ferric chloride • ferric sulphate • hydrated lime • polyacrylamide • polyaluminium chloride (PACL) • polyDADMAC • sulphuric acid
sampling and testing may include:	• alkalinity titration • flocculation growth • jar testing • residual inorganic compounds • specific UVA (SUVA) • UV absorbance
NWPTRT058 Assess and improve desalination processes	
desalination processes may include:	• electrodialysis reversal (EDR) • reverse osmosis • thermal desalination

Implementation Advice

NWPTRT059 Assess and improve granular media filters

granular media filter processes may include:	• continuous backwash • gravity filters • pressure filters • slow sand filter
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NWPTRT060 Assess and improve memberane bioreactor processes

range and characteristics of operational performance measures may include:	• ammonia suppression • biochemical oxygen demand (BOD) • chemical oxygen demand (COD) • food to microorganism ratio (F:M) • membrane fouling • mixed liquor suspended solids (MLSS) • nitrogen and phosphorus removal • sludge age • trans membrane pressure (TMP)
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NWPTRT063 Assess and improve membrane filters

membrane filtration processes may include:	• microfiltration • nanofiltration • ultrafiltration
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NWPTRT065 Assess and improve treatment for removal of microorganisms in drinking water and recycled water:

analysing general characteristics caused by waterborne microorganisms may include:	• opportunistic infection capability • pathogenicity • resistance to disinfectants • virulence
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assessing and recommending water or re-use treatment processes for physically removing or deactivating pathogenic microorganisms may include:	• disinfection: ○ chloramination ○ chlorination ○ chlorine dioxide ○ ozone ○ UV • filtration ○ granular media filters ○ membrane filters ○ slow sand filter
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assessing causes of nuisance and toxicity problems may include:	• bacteria: ○ Campylobacter ○ Escherichia coli ○ Salmonella
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Implementation Advice

	• cyanobacteria: ○ Anabaena circinalis ○ Microcystis aeruginosa • micro types: ○ diatoms ○ sulphur bacteria • pathogenic microorganisms: ○ enterovirus ○ hepatitis A ○ hepatitis E ○ rotavirus ○ viruses • protozoa species: ○ cryptosporidium ○ Giardia ○ helminths, including Ascaris lumbricoides ○ Nagleria
identifying pathogenic microorganisms and the diseases they cause may include:	• algae • ascariasis • bacteria • cholera • cryptosporidiosis • cyanobacteria • gastroenteritis • giardiasis • helminths • hepatitis • protozoa • tuberculosis • typhoid • viruses
selecting pre- or post-treatment processes for removing the causes of nuisance and toxicity problems may include:	• activated carbon • algicides • micro-straining • ozone-biologically activated carbon (BAC)

Implementation Advice

types, lifecycle and characteristics of waterborne microorganisms may include:

- evolutionary development
- growth rates and requirements
- life cycle
- source
- structure

NWPTRT066 Assess and improve wastewater processes to control microbial impacts

controlling microbial impacts may include:

- algae (diatoms, cyanobacteria and green algae)
- bulking and foaming organisms
- denitrifiers (heterotrophs)
- mesophilic and thermophilic organisms
- nematodes
- nitrifiers (autotrophs)
- phosphorous accumulating organisms (PAO)

NWPTRT067 Assess and optimise chemical dosing processes in wastewater

facilitating sampling and testing may include:

- alkalinity titration
- jar testing
- total suspended solids
- total solids
- nutrient analysis

chemical addition plant and equipment may include:

- chemical injection equipment
- dosing pumps
- flow meters
- mixing equipment
- turbidity meter
- supervisory control and data acquisition (SCADA) data

range and characteristics of chemicals used in chemical addition processes may include:

- aluminium chlorohydrate (ACH)
- aluminium sulphate
- caustic soda
- ferric chloride
- ferric sulphate
- hydrated lime
- magnesium hydroxide
- polyacrylamide
- polyaluminium chloride (PACL)
- polyDADMAC
- sulphuric acid

ATTACHMENT G: COMPANION VOLUME IMPLEMENTATION GUIDE

QUALITY ASSURANCE PROCESS

A CVIG is initiated in accordance with the requirements of the National Skills Standard Council (NSSC) Standards for Training Packages and is located within the CVIG.

The steps in the Quality Assurance (QA) process as they apply to the CVIG are:

1. The CVIG is developed by the Industry Skills Specialist (ISS) in accordance with Standards 11 and 12 (NSSC Standards for Training Packages):
 - **Standard 11:** A quality assured Companion Volume Implementation Guide produced by the Training Package developer is available at the time of endorsement and complies with the Companion Volume Implementation Guide template
 - **Standard 12:** Training Package developers produce other quality assured companion volumes to meet the needs of their stakeholders as required
2. Content is validated and amended as part of the validation stage in the implementation of the Standards.
3. The CVIG is submitted for external QA with the Training Package changes to ensure it is available at the time of endorsement.
4. As the implementation of the Standards continues for the Training Package, the CVIG is reviewed by the ISS to ensure mapping tables are updated and any additional information is added as required. Proposed changes are subject to industry validation as part of the Endorsement process.
5. Where changes are made to a Training Package and minor amendments are required for the CVIG, the ISS includes amendments as part of the validation phase and incorporates the reference in the version control modification history at the front of the CVIG.

ATTACHMENT H: COMPANION VOLUME IMPLEMENTATION GUIDE TEMPLATE

COMPANION VOLUME IMPLEMENTATION GUIDE FOR NWP National Water Training Package

OVERVIEW INFORMATION	• Version control and modification history. • List of AQF qualifications, Skill Sets and Units of Competency in the Training Package. • Unit mapping information, including equivalence table linking old to new Units of Competency. • Qualification mapping information, including equivalence table linking old to new qualification. • List of imported and prerequisite units in the Training Package. • Key work and training requirements in the industry. • Regulation and licensing implications for implementation.
IMPLEMENTATION INFORMATION	• Information on the key features of the Training Package and the industry that will impact on the selection of training pathways. • Industry sectors and occupational outcomes of qualifications. • Explanation of any mandatory entry requirements for qualifications. • Pathways advice, particularly in line with requirements of the AQF Pathways Policy. • Access and equity considerations. • Foundation Skills. • Advice on any health and safety implications in the industry. • Resource and equipment lists relevant to the Training Package. • Legal considerations for learners in the workplace/on placements. • Other information relevant to implementation of the Training Package.
LINKS	• Resources supporting the companion volume implementation guide. • Other companion volumes as required including: ○ Learning strategies guidance, describing the diversity of learners and learning strategies. ○ Knowledge guidance, identifying contextual information such as knowledge requirements and resources. ○ Assessment strategies, providing guidance on implementation of assessment requirements. • Training Package developer's quality assurance process for companion volumes.

