

NWP National Water Training Package

Version 5

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National NWP National Water Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package.

Version 5.00 of the NWP National Water Training Package was released by Training.Gov.Au (TGA) on the 07/12/2022.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Contact Details

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Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the training package.

National Code	National Title	Nominal Hours
NWP20122	Certificate II in Water Industry Operations	282
NWP30222	Certificate III in Water Industry Operations	340
NWP40120	Certificate IV in Water Industry Operations	395
NWP50118	Diploma of Water Industry Operations	605

Skill Sets and Nominal Hours

The following table provides a summary of the skill sets and nominal hours in the training package.

National Code	National Title	Nominal Hours
NWPSS00001	Advanced certification bridging	85
NWPSS00002	Catchment operations	270
NWPSS00003	Certification bridging	45
NWPSS00004	Dam operations	170
NWPSS00007	Regional treatment operations	160
NWPSS00011	Dam Operations and Maintenance Skill Set	130
NWPSS00012	Environmental Procedures Skill Set	210
NWPSS00013	Hydrometric Monitoring Basics Skill Set	255
NWPSS00014	Water Sampling Skill Set	180
NWPSS00015	Flood Warning Site Operators Skill Set	16

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the training package.

National Code	National Title	Nominal Hours
NWPAMG001	Manage asset construction and maintenance	80
NWPCAD001	Respond to blue-green algae outbreaks	20
NWPCAD002	Control vegetation on a site	20
NWPCAD003	Identify and confirm blue-green algae outbreaks	20
NWPCAD004	Maintain catchment and surrounding areas	40
NWPCAD005	Monitor, inspect and report catchment areas	20
NWPCAD006	Monitor and coordinate catchment operations	30
NWPCAD007	Inspect, operate and maintain low consequence dams	30
NWPCAD008	Monitor and control dam operations	50
NWPCAD009	Monitor and implement dam maintenance	30
NWPCAD010	Inspect and report on concrete dam safety	30
NWPCAD011	Inspect and report on embankment dam safety	30
NWPCAD012	Route floods through storages	50
NWPCAD013	Conduct and report dam safety instrumentation monitoring	30
NWPCAD014	Inspect and report river performance	25
NWPCAD015	Operate and maintain locks and weirs	45
NWPCAD016	Operate and maintain fishways	45
NWPCAD017	Operate and maintain salt interception works	35
NWPCAD018	Monitor and operate bulkwater transfer systems	30
NWPCAD019	Monitor and operate groundwater extraction	35
NWPCAD020	Inspect and operate groundwater regulation	30
NWPCAD021	Coordinate and monitor bulkwater system operations	40
NWPCAD022	Coordinate and monitor groundwater system usage	40

NWPCAD023	Develop and implement catchment operational plans	40
NWPCAD024	Implement dam safety plans	100
NWPCCO001	Analyse and implement network data	45
NWPCCO002	Use control centre systems to monitor and control water	70
NWPGEN006	Implement and manage environmental management policies	100
NWPGEN016	Interpret and comply with regulatory requirements	55
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation	10
NWPGEN018	Follow environmental and licensing procedures	30
NWPGEN019	Assess, implement and report environmental procedures	40
NWPGEN020	Sample and test source or drinking water	35
NWPGEN021	Sample and test wastewater	35
NWPGEN022	Perform laboratory testing	40
NWPGEN023	Use maps, plans, drawings and details	25
NWPGEN024	Identify the role and functions of the water industry	20
NWPGEN025	Apply principles of chemistry to water systems and processes	50
NWPGEN026	Provide and promote customer service	30
NWPGEN027	Monitor and operate pump stations	30
NWPGEN028	Investigate and report on breaches of water industry legislation	30
NWPGEN029	Contribute to continuous improvement of quality systems	40
NWPGEN030	Coordinate and monitor the application of environmental plans and procedures	40
NWPGEN031	Develop an operational plan	35
NWPGEN032	Ensure compliance with water industry standards, guidelines and legislation	55
NWPGEN033	Sample and test trade wastewater	35
NWPGEN034	Operate and maintain flood warning sites	16
NWPHYD002	Apply principles of open channel hydraulics	35
NWPHYD003	Develop and maintain ratings	100
NWPHYD004	Plan water resource management	100

NWPHYD005	Process and report hydrographic time series data	100
NWPHYD006	Measure discharge and process discharge data using a range of methods and equipment	100
NWPHYD007	Measure discharge using wading method	60
NWPHYD008	Operate, maintain and decommission monitoring sites	130
NWPHYD009	Undertake surveying of monitoring sites	60
NWPHYS001	Identify and analyse information technology for hydrographic surveys	45
NWPHYS002	Interpret and analyse science principles for hydrographic surveying	45
NWPHYS003	Manage and analyse water levels and flows	55
NWPHYS004	Manage hydrographic surveying projects	55
NWPHYS005	Use alternate positioning systems to gather data	35
NWPHYS006	Use remote sensing for hydrographic surveying	25
NWPHYS007	Use underwater acoustics to map waterways	25
NWPIRR004	Develop and review a groundwater plan	100
NWPIRR005	Develop and review a surface water plan	120
NWPIRR006	Develop and review an irrigation system plan	120
NWPIRR007	Implement and coordinate a surface water plan	120
NWPIRR008	Implement and coordinate an irrigation delivery system plan	100
NWPIWS001	Monitor and operate rural irrigation and domestic delivery systems	30
NWPIWS002	Operate regulating devices in rural irrigation systems	20
NWPIWS003	Inspect and operate water diversion systems	30
NWPIWS004	Install meters for rural water supplies	20
NWPIWS005	Maintain and repair irrigation channels and drains	30
NWPIWS006	Maintain meters for rural water supplies	20
NWPIWS007	Detect and rectify faults with automated channel regulators	35
NWPIWS008	Monitor and conduct maintenance on rural irrigation assets	40
NWPIWS009	Monitor and control drainage operations	30
NWPIWS010	Monitor and control rural water distribution operations	30

NWPIWS011	Identify and apply water entitlements and delivery processes	30
NWPIWS012	Monitor and schedule water deliveries	30
NWPIWS013	Coordinate and monitor pumped rural irrigation systems	40
NWPIWS014	Coordinate and monitor the operation of irrigation delivery systems	40
NWPNET006	Apply construction principles to civil works in the water industry	70
NWPNET007	Conduct commissioning and post-commissioning activities	120
NWPNET008	Develop and manage a drinking water system plan	80
NWPNET009	Develop and manage a wastewater collection plan	80
NWPNET010	Develop and manage an alternate water supply plan	80
NWPNET018	Disinfect network assets	25
NWPNET019	Prepare and restore worksite	40
NWPNET028	Monitor and operate network systems	35
NWPNET029	Locate, identify and protect utilities	30
NWPNET030	Identify and respond to water quality problems	30
NWPNET036	Perform leak detection	20
NWPNET037	Inspect sewer or stormwater assets	40
NWPNET038	Install metering equipment	35
NWPNET040	Maintain and repair network assets for wastewater	45
NWPNET046	Maintain and repair network assets for bulkwater	30
NWPNET047	Install, maintain and repair hydrants	20
NWPNET048	Monitor and control vacuum sewer systems	45
NWPNET049	Construct and install water distribution assets	30
NWPNET050	Construct and install wastewater collection assets	30
NWPNET051	Monitor and operate water distribution systems	30
NWPNET052	Monitor and operate wastewater collection and transfer systems	30
NWPNET053	Test and commission water distribution systems	40
NWPNET054	Test and commission wastewater collection systems	40

NWPNET055	Coordinate and manage maintenance and repair of network assets	50
NWPNET056	Coordinate and monitor network asset construction	65
NWPNET057	Establish connections of water and wastewater systems	25
NWPNET058	Optimise network systems	40
NWPNET059	Supervise and report on conduit inspections	40
NWPNET060	Clean networks using air scouring, chemical or swabbing techniques	24
NWPNET061	Maintain and repair network assets for drinking water	45
NWPNET062	Maintain network assets using high pressure water systems	20
NWPNET063	Use digital imaging equipment in the field	24
NWPNET064	Control electrical risk on network pipes	10
NWPNET065	Perform odour and infiltration investigations	30
NWPSOU004	Develop and manage a catchment plan	55
NWPSOU005	Develop and manage a dam safety inspection plan	55
NWPSOU006	Develop and manage a flood plan	70
NWPSOU007	Implement and coordinate a catchment plan	100
NWPSOU008	Implement and coordinate a groundwater plan	100
NWPTRD003	Evaluate, implement and monitor high risk trade waste discharge approvals	120
NWPTRD004	Implement and manage trade waste policies and plans	100
NWPTRD005	Develop and modify trade waste policies and plans	80
NWPTRD006	Investigate trade waste incidents and non-compliances	70
NWPTRD007	Monitor trade waste approvals	40
NWPTRD008	Process standard trade waste approvals	60
NWPTRT002	Develop and manage a treatment process monitoring program	80
NWPTRT003	Develop and manage a wastewater treatment plan	80
NWPTRT004	Develop and manage a water treatment plan	80
NWPTRT005	Monitor and operate water treatment processes	45
NWPTRT006	Monitor and operate fluoride addition processes	20

NWPTRT007	Monitor and operate liquefied chlorine gas disinfection processes	35
NWPTRT008	Operate and control iron and manganese removal processes	20
NWPTRT009	Operate and control coagulation and flocculation processes	40
NWPTRT010	Operate and control sedimentation and clarification processes	45
NWPTRT016	Operate and control dissolved air flotation processes	25
NWPTRT017	Operate and control activated carbon processes	20
NWPTRT018	Operate and control ion exchange and softening processes	20
NWPTRT019	Operate and control granular media filters	30
NWPTRT020	Operate and control membrane filters	20
NWPTRT021	Operate and control desalination processes	35
NWPTRT022	Monitor and operate hypochlorite disinfection processes	40
NWPTRT023	Monitor and operate ultraviolet processes	20
NWPTRT024	Operate and control chloramination processes	40
NWPTRT025	Monitor and operate chlorine dioxide processes	30
NWPTRT026	Monitor and operate ozone processes	30
NWPTRT027	Monitor and operate wastewater treatment processes	45
NWPTRT028	Operate and control reclaimed water irrigation	30
NWPTRT029	Monitor and operate pre-treatment processes	20
NWPTRT030	Operate and control odour removal processes	25
NWPTRT036	Operate and control activated sludge processes	40
NWPTRT037	Operate and control nutrient removal processes	30
NWPTRT038	Operate and control fixed film processes	20
NWPTRT039	Operate and control solids handling processes	20
NWPTRT040	Operate and control digestion processes	35
NWPTRT046	Operate and control incineration processes	20
NWPTRT047	Monitor, operate and control lagoon processes	25
NWPTRT048	Monitor and operate reclaimed water irrigation	25

NWPTRT049	Assess and improve activated sludge and biological nutrient removal processes	60
NWPTRT050	Assess and improve anaerobic digestion processes	60
NWPTRT057	Assess and improve coagulation and flocculation processes	60
NWPTRT058	Assess and improve desalination processes	35
NWPTRT059	Assess and improve granular media filters	60
NWPTRT060	Assess and improve membrane bioreactor processes	55
NWPTRT063	Assess and improve membrane filters	45
NWPTRT064	Assess and improve sedimentation processes	60
NWPTRT065	Assess and improve treatment for removal of microorganisms in drinking water and recycled water	35
NWPTRT066	Assess and improve wastewater processes to control microbial impacts	40
NWPTRT067	Assess and optimise chemical dosing processes in wastewater	55

Mapping Qualifications

The following table provides an overview of the qualifications from Version 5 which replace qualifications from the existing version of the NWP National Water Training Package.

NWP Current Qualification				NWP Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
NWP20119	Certificate II in Water Industry Operations	282	E	NWP20122	Certificate II in Water Industry Operations	282
NWP30219	Certificate III in Water Industry Operations	340	E	NWP30222	Certificate III in Water Industry Operations	340

Mapping Skill Sets

The following table provides an overview of the skill sets from Version 5 which replace skill sets from the existing version of the NWP National Water Training Package.

NWP Current Skill Set				NWP Replacement Skill Set		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	NWPSS00015	Flood Warning Site Operators Skill Set	16

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 5 which replace units of competency from the existing version of the NWP National Water Training Package.

NWP Current Unit				NWP Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
			-	NWPGEN034	Operate and maintain flood warning sites	16
			-	NWPNET060	Clean networks using air scouring, chemical or swabbing techniques	24
NWPNET039	Maintain and repair network assets for drinking water	45	E	NWPNET061	Maintain and repair network assets for drinking water	45
			-	NWPNET062	Maintain network assets using high pressure water systems	20
			-	NWPNET063	Use digital imaging equipment in the field	24
NWPNET020	Control electrical risk on metallic pipes	10	E	NWPNET064	Control electrical risk on network pipes	10
NWPNET035	Perform odour and infiltration investigations	30	E	NWPNET065	Perform odour and infiltration investigations	30

Apprenticeships

The following table provides a summary of the apprenticeships that have been affected by changes in this NWP National Water Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

National Code	National Title	Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
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No changes occurred between NWP v4.3 & v5.

Traineeships

The following table provides a summary of the traineeships that have been affected by changes in this NWP National Water Training Package update.

Please refer to the current *Register of Class A and B qualifications* found on the Department of Training and Workforce Development website for the official list of apprenticeships in Western Australia.

National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
NWP20119	Certificate II in Water Industry Operations	TR11100: WATER INDUSTRY OPERATOR (LEVEL 2)	282	E	NWP20122	Certificate II in Water Industry Operations	282
NWP30219	Certificate III in Water Industry Operations	TR11110: WATER INDUSTRY OPERATOR (LEVEL 3)	340	E	NWP30222	Certificate III in Water Industry Operations	340
NWP30219	Certificate III in Water Industry Operations	TR11120: WATER INDUSTRY TREATMENT (LEVEL 3)	340	E	NWP30222	Certificate III in Water Industry Operations	340

Pre-Apprenticeships

The following table provides a summary of the pre-apprenticeships that have been affected by changes in this NWP National Water Training Package update.

Please refer to the current *list of pre-apprenticeship courses* found on the Department of Training and Workforce Development website for the official list of pre-apprenticeships in Western Australia.

National Code	National Title	Pre-Apprenticeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
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No changes occurred between NWP v4.3 & v5.