

Victorian Purchasing Guide

NWP National Water Training Package

March 2019

Release 2.0

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Victorian Purchasing Guide - Version History

Training Package Release	Date VPG Approved	Comments
NWP National Water Training Package Release 2.0	6 March 2019	<p>This Victorian Purchasing Guide reflects NWP National Water Training Package Release 2.0. The NWP National Water Training Package Release 2.0 contains:</p> <ul style="list-style-type: none"> • One (1) revised qualification: <ul style="list-style-type: none"> ◦ NWP50118 Diploma of Water Industry Operations • Twenty (20) new units of competency • Sixteen (16) revised units of competency.
NWP National Water Training Package Release 1.0	18 March 2016	<p>This Victorian Purchasing Guide reflects the first iteration of the NWP Water Training Package Release 1.0</p> <p>The NWP Water Training Package Release 1 has been produced in the New Standards format and contains:</p> <p>Three (3) new qualifications</p> <ul style="list-style-type: none"> • 30315 Certificate III in Water Industry Treatment • 30415 Certificate III in Water Industry Irrigation • 40615 Certificate IV in Water Industry Treatment <p>Four (4) new/revised qualifications</p> <ul style="list-style-type: none"> • 20115 Certificate II in Water Industry Operations • 30215 Certificate III in Water Industry Operations • 40515 Certificate IV in Water Industry Operations • 50715 Diploma of Water Industry Operations <p>One hundred and forty-eight (148) units of competency:</p> <ul style="list-style-type: none"> • 38 new units • 110 revised units

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INTRODUCTION

What is a Purchasing Guide?

The Victorian Purchasing Guide (VPG) provides information for use by Registered Training Organisations (RTOs) in the provision of Victorian government subsidised training.

Specifically, the VPG provides the following information related to the delivery of nationally endorsed Training Packages in Victoria:

- maximum payable hours available for each qualification
- nominal hours for each unit of competency within the Training Package.

Registration

RTOs must be registered by either the Victorian Registration and Qualifications Authority (VRQA) or the Australian Skills Qualification Authority (ASQA) regulatory body to be eligible to issue qualifications and statements of attainment under the Australian Qualifications Framework (AQF).

The VRQA is the regulatory authority in Victoria responsible for the registration of education and training providers in VET who provide courses to domestic students only and who offer training in Victoria only or Victoria and Western Australia only.

To register to provide training to international students and in other Australian states and territories you will need to apply with ASQA.

QUALIFICATIONS

Code	Title	Minimum Payable Hours	Maximum Payable Hours
NWP20115	Certificate II in Water Industry Operations	323	340
NWP30215	Certificate III in Water Industry Operations	484	510
NWP30315	Certificate III in Water Industry Treatment	380	400
NWP30415	Certificate III in Water Industry Irrigation	352	370
NWP40515	Certificate IV in Water Industry Operations	703	740
NWP40615	Certificate IV in Water Industry Treatment	532	560
NWP50118	Diploma of Water Industry Operations	770	810

UNITS OF COMPETENCY

Unit Code	Unit Title	Nominal Hours
NWPAMG001	Manage asset construction and maintenance	90
NWPCCO001	Analyse and implement network data	50
NWPCCO002	Use control centre systems to monitor and control water	80
NWPGEN001	Apply the risk management principles of the water industry standards, guidelines and legislation	10
NWPGEN002	Ensure compliance with water industry standards, guidelines and legislation	60
NWPGEN003	Apply environmental and licensing procedures of the water industry	30
NWPGEN004	Assess, implement and report environmental procedures	40
NWPGEN005	Coordinate and monitor the application of environmental plans and procedures	80
NWPGEN006	Implement and manage environmental management policies	100
NWPGEN007	Sample and test drinking water	40
NWPGEN008	Sample and test wastewater	40
NWPGEN009	Perform laboratory testing	40
NWPGEN010	Contribute to continuous improvement of quality systems	40
NWPGEN011	Use maps, plans, drawings and specifications	30
NWPGEN012	Support the role and functions of the water industry	20
NWPGEN013	Apply principles of chemistry to water systems and processes	50
NWPGEN014	Sample and test trade wastewater	40
NWPGEN015	Develop an operational plan	40
NWPGEN016	Interpret and comply with regulatory requirements	60
NWPHYD002	Apply principles of open channel hydraulics	40
NWPHYD003	Develop and maintain ratings	100

Unit Code	Unit Title	Nominal Hours
NWPHYD004	Plan water resource management	100
NWPHYD005	Process and report hydrographic time series data	100
NWPHYD011	Measure and process low and medium flows using area velocity methods	60
NWPHYD012	Establish monitoring sites	100
NWPHYD013	Operate, maintain and decommission monitoring sites	130
NWPHYD014	Measure and process medium and high flows using a range of methods and equipment	100
NWPHYD015	Undertake surveying of monitoring sites	60
NWPHYS001	Identify and analyse information technology for hydrographic surveys	50
NWPHYS002	Interpret and analyse science principles for hydrographic surveying	50
NWPHYS003	Manage and analyse water levels and flows	60
NWPHYS004	Manage hydrographic surveying projects	60
NWPHYS005	Use alternate positioning systems to gather data	40
NWPHYS006	Use remote sensing for hydrographic surveying	30
NWPHYS007	Use underwater acoustics to map waterways	30
NWPIRR001	Monitor and operate irrigation and domestic delivery systems	30
NWPIRR002	Operate basic flow control and regulating devices in irrigation systems	20
NWPIRR003	Inspect and operate surface water systems	40
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	100
NWPIRR007	Implement and coordinate a surface water plan	120
NWPIRR008	Implement and coordinate an irrigation delivery system plan	80
NWPIRR011	Install devices for irrigation systems	30

Unit Code	Unit Title	Nominal Hours
NWPIRR012	Construct open earthen channels or drains	30
NWPIRR013	Construct and install irrigation delivery and stormwater drainage assets	30
NWPIRR014	Install meters for rural water supplies	30
NWPIRR021	Maintain and repair irrigation channels and drains	30
NWPIRR022	Maintain meters for rural water supplies	20
NWPIRR023	Detect and rectify faults with automated channel regulators	40
NWPIRR024	Monitor and conduct maintenance on flow control and metering devices	40
NWPIRR031	Monitor and control drainage operations	40
NWPIRR032	Monitor and control rural water distribution operations	40
NWPIRR033	Coordinate and monitor the operation of irrigation delivery systems	60
NWPIRR034	Coordinate and monitor surface water systems	60
NWPIRR035	Coordinate and monitor the operation of drainage systems	60
NWPIRR041	Identify and apply water entitlements and delivery processes	30
NWPIRR042	Monitor and schedule water deliveries	40
NWPIRR051	Provide and promote customer service	20
NWPNET001	Disinfect network assets	30
NWPNET002	Prepare and restore work site	30
NWPNET003	Control electrical risk on metallic pipes	10
NWPNET004	Monitor and operate network systems	40
NWPNET005	Optimise network systems	50
NWPNET006	Apply construction principles to civil works in the water industry	80
NWPNET007	Conduct commissioning and post-commissioning activities	120
NWPNET008	Develop and manage a drinking water system plan	90
NWPNET009	Develop and manage a wastewater collection plan	90

Unit Code	Unit Title	Nominal Hours
NWPNET010	Develop and manage an alternate water supply plan	90
NWPNET011	Locate, identify and protect utilities	30
NWPNET012	Use locating devices	30
NWPNET013	Identify and respond to water problems	30
NWPNET014	Perform odour and infiltration investigations	40
NWPNET015	Perform leak detection	40
NWPNET016	Inspect sewer or stormwater line	40
NWPNET017	Supervise and report on conduit inspections	40
NWPNET021	Install metering equipment	40
NWPNET022	Maintain and repair network assets for drinking water	50
NWPNET023	Maintain and repair network assets for wastewater	50
NWPNET024	Maintain and repair network assets for bulkwater	30
NWPNET025	Coordinate and manage maintenance and repair of network assets	50
NWPNET026	Install, maintain and repair hydrants	20
NWPNET027	Monitor and control vacuum sewer systems	50
NWPNET031	Construct and install water distribution assets	30
NWPNET032	Construct and install wastewater assets	30
NWPNET033	Coordinate and monitor water asset construction	70
NWPNET041	Monitor and operate water distribution systems	40
NWPNET042	Monitor and operate wastewater collection and transfer systems	40
NWPNET043	Monitor and operate bulkwater transfer systems	30
NWPNET044	Test and commission water distribution systems	40
NWPNET045	Test and commission wastewater collection systems	40
NWPSOU001	Respond to blue-green algae outbreaks	20
NWPSOU002	Control vegetation on a site	20

Unit Code	Unit Title	Nominal Hours
NWPSOU003	Identify and confirm blue-green algae outbreaks	20
NWPSOU004	Develop and manage a catchment plan	60
NWPSOU005	Develop and manage a dam safety inspection plan	60
NWPSOU006	Develop and manage a flood plan	80
NWPSOU007	Implement and coordinate a catchment plan	120
NWPSOU008	Implement and coordinate a groundwater plan	100
NWPSOU011	Maintain catchment and surrounding areas	40
NWPSOU012	Monitor, inspect and report catchment operations	20
NWPSOU013	Monitor and coordinate catchment operations	30
NWPSOU014	Develop and implement catchment operational plans	60
NWPSOU021	Inspect and maintain basic dams and water storages	30
NWPSOU022	Monitor and control dam operations	50
NWPSOU023	Monitor and implement dam maintenance	30
NWPSOU024	Inspect and report on concrete dam safety	30
NWPSOU025	Inspect and report on embankment dam safety	30
NWPSOU026	Implement dam safety plans	100
NWPSOU027	Route floods through storages	50
NWPSOU029	Conduct and report dam safety instrumentation monitoring	30
NWPSOU030	Inspect and report river performance	30
NWPSOU031	Operate and maintain locks and weirs	50
NWPSOU032	Operate and maintain fishways	50
NWPSOU033	Operate and maintain salt interception works	40
NWPSOU041	Coordinate and monitor bulkwater system operations	60
NWPSOU051	Monitor and operate groundwater extraction	40
NWPSOU052	Inspect and operate groundwater regulation	40

Unit Code	Unit Title	Nominal Hours
NWPSOU053	Coordinate and monitor groundwater system usage	60
NWPSOU054	Monitor and operate pump stations	30
NWPTRD001	Evaluate, implement and monitor standard low risk trade waste discharge approvals	60
NWPTRD003	Evaluate, implement and monitor high risk trade waste discharge approvals	120
NWPTRD004	Implement and manage trade waste policies and plans	80
NWPTRD005	Develop and modify trade waste policies and plans	100
NWPTRD011	Investigate and report on breaches of water industry legislation	40
NWPTRD012	Investigate, rectify and report on trade waste incidents	70
NWPTRD023	Coordinate, implement and report on trade waste monitoring procedures	60
NWPTRD024	Establish connections of water and wastewater systems	30
NWPTRT001	Operate and control water treatment processes	50
NWPTRT002	Develop and manage a treatment process monitoring program	90
NWPTRT003	Develop and manage a wastewater treatment plan	90
NWPTRT004	Develop and manage a water treatment plan	90
NWPTRT011	Assess and improve chemical dosing process	60
NWPTRT012	Operate and control fluoride addition process	20
NWPTRT013	Operate and control liquefied chlorine gas disinfection	40
NWPTRT014	Operate and control iron and manganese removal processes	20
NWPTRT015	Operate and control coagulation and flocculation processes	50
NWPTRT031	Operate and control sedimentation and clarification processes	40
NWPTRT032	Assess and improve sedimentation processes	60
NWPTRT033	Operate and control DAF processes	30
NWPTRT034	Operate and control activated carbon processes	20
NWPTRT035	Operate and control ion exchange and softening processes	30

Unit Code	Unit Title	Nominal Hours
NWPTRT041	Operate and control granular media filters	50
NWPTRT042	Assess and improve granular media filters	60
NWPTRT043	Operate and control membrane filters	30
NWPTRT044	Operate and control desalination processes	40
NWPTRT045	Assess and improve desalination processes	40
NWPTRT051	Assess and improve treatment for pathogen removal	40
NWPTRT052	Operate and control hypochlorite disinfection processes	30
NWPTRT053	Operate and control UV processes	20
NWPTRT054	Operate and control chloramination processes	40
NWPTRT055	Operate chlorine dioxide processes	30
NWPTRT056	Operate and control ozone processes	30
NWPTRT061	Operate and control wastewater processes	50
NWPTRT062	Operate and control reclaimed water irrigation	40
NWPTRT071	Operate and control pre-treatment processes	20
NWPTRT072	Operate and control odour removal processes	30
NWPTRT073	Operate and control wastewater sedimentation processes	20
NWPTRT081	Operate and control activated sludge processes	50
NWPTRT082	Operate and control nutrient removal processes	40
NWPTRT083	Operate and control aerobic bioreactor processes	30
NWPTRT084	Assess and improve activated sludge and nutrient removal processes	60
NWPTRT085	Assess and improve wastewater processes to control microbial impacts	40
NWPTRT091	Operate and control solids handling processes	30
NWPTRT092	Operate and control digestion processes	40
NWPTRT093	Assess and improve anaerobic digestion processes	60

Unit Code	Unit Title	Nominal Hours
NWPTRT094	Operate and control incineration processes	40
NWPTRT101	Operate and control lagoon processes	30

CONTACTS AND LINKS

Curriculum Maintenance Manager (CMM)		
Water	The CMM Service is provided by Executive Officers, across all industry areas covered by Training Packages. They can assist with questions on payable and nominal hours.	Teresa Signorello Address: PO Box 42, Holmesglen, Victoria Australia 3148 Phone: 03 9564 1987 Email: teresa.signorello@holmesglen.edu.au Website for the Victorian Department of Education and Training can be found here
Service Skills Organisations (SSO)		
Australian Industry Standards	This SSO is responsible for developing this NWP National Water Training Package, companion volumes and support material and can be contacted for further information.	Address: Level 2 31 Market Street South Melbourne, VIC 3205 Phone: 03 9604 7200 Australian Industry Standards website can be found here .
National Register for VET in Australia		
Training.gov.au (TGA)	TGA is the Australian governments' official National Register of information on Training Packages, Accredited Courses, qualifications, units of competency and RTOs.	National Register website can be found here .
Australian Government		
Department of Education and Training	The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.	The Commonwealth Department of Education and Training website can be found here .
Victorian State Government		
Department of Education and Training (DET)	DET is responsible for funding and the implementation of Vocational Education and Training (VET) in Victoria, including Apprenticeships and Traineeships policy.	(03) 9637 2000 The Victorian Department of Education and Training website can be found here .
National VET Regulatory Authority		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector.	Info line: 1300 701 801 ASQA's website can be found here
Victorian State VET Regulatory Authority		

Victorian Registration and Qualifications Authority (VRQA)	The VRQA is a statutory authority responsible for the registration and regulation of Victorian RTOs and for the regulation of apprenticeships and traineeships in Victoria.	(03) 9637 2806 VRQA's website can be found here
Industry Regulatory Bodies applicable to this Training Package		
National Health and Medical Research Council (NHMRC)		1300 064 672 NHMRC website can be found here
WorkSafe Victoria	WorkSafe needs to provide written verification before High Risk Work units can be added to an RTO's scope of registration.	1800 136 089 WorkSafe website can be found here

GLOSSARY

Code	Nationally endorsed Training Package qualification code.
Title	Nationally endorsed Training Package qualification title.
Unit Code	Nationally endorsed Training Package unit of competency code.
Unit Title	Nationally endorsed Training Package unit of competency title.
Maximum Payable Hours	The maximum number of hours the Victorian Government will subsidise under the Victorian Training Guarantee for the achievement of the minimum realistic vocational outcome of the qualification, as determined by the qualification packaging rules. The Maximum Payable Hours do not cover every possible combination of core and elective units available for a specific qualification.
Nominal Hours	Nominal hours reflect the anticipated time taken to deliver and assess the outcomes of a unit of competency excluding unsupervised delivery or the time taken for repeated practical application of skills. Nominal hours are determined by the Victorian State Training Authority (DET) and are primarily developed for funding purposes in Victoria.