**Victorian Purchasing Guide**

**for**

**NWP National Water  
Training Package**

**Release 3.0**

**March 2020**

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Victorian Purchasing Guide ⎯ Release History

**Note**: RTOs should refer to the National Register for the detail of changes made in each Release. (See [National Register](https://training.gov.au/Home/Tga) for more information)

| Training Package Release | **Date VPG Approved** | | Comments |
| --- | --- | --- | --- |
| NWP National Water Training Package  Release 3.0 | | 26 February 2020 | This Victorian Purchasing Guide reflects NWP National Water Training Package Release 3.0. The NWP National Water Training Package Release 3.0 contains:   * Two (2) revised qualifications: * NWP20119 Certificate II in Water Industry Operations * NWP30219 Certificate III in Water Industry Operations * One (1) new unit of competency * Ninety-three (93) revised units of competency |
| NWP National Water Training Package  Release 2.0 | | 6 March 2019 | This Victorian Purchasing Guide reflects NWP National Water Training Package Release 2.0. The NWP National Water Training Package Release 2.0 contains:   * One (1) revised qualification: * 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 | This Victorian Purchasing Guide reflects the first iteration of the NWP Water Training Package Release 1.0  The NWP Water Training Package Release 1 has been produced in the New Standards format and contains:   * Three (3) new qualifications: * 30315 Certificate III in Water Industry Treatment * 30415 Certificate III in Water Industry Irrigation * 40615 Certificate IV in Water Industry Treatment * Four (4) new/revised qualifications: * 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 * One hundred and forty-eight (148) units of competency: * 38 new units * 110 revised units |

**NWP National Water Training Package Release 3.0   
Victorian Purchasing Guide**

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INTRODUCTION

What is a Victorian Purchasing Guide?

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

Specifically the Victorian Purchasing Guide provides the following information related to the delivery of nationally endorsed Training Packages in Victoria:

* The maximum and minimum 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 Vocational Education and Training (VET) providers who offer courses to domestic students in Victoria only.

ASQA is the regulatory authority responsible for the registration of VET providers who offer training in Victoria, nationally and / or internationally.

Transition

The relationship between new units and any superseded or replaced units from the previous version of **NWP National Water Training Package Release 3.0** is provided in theTraining PackageCompanionVolume Implementation Guide. (See [Companion Volumes](https://vetnet.education.gov.au/Pages/default.aspx) for more information).

Information regarding transition arrangements can be obtained from the state or national VET Regulatory Authority (see Contacts and Links section).

RTOs must ensure that all training and assessment leading to issuance of qualifications or Statements of Attainment from the **NWP National Water Training Package Release 3.0** is conducted against the Training Package units of competency and complies with the assessment requirements.

QUALIFICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Title** | **Minimum Payable Hours** | **Maximum Payable Hours** |
| NWP20119 | Certificate II in Water Industry Operations | 323 | 340 |
| NWP30219 | Certificate III in Water Industry Operations | 450 | 474 |
| NWP40515 | Certificate IV in Water Industry Operations | 703 | 740 |
| NWP40615 | Certificate IV in Water Industry Treatment | 532 | 560 |
| NWP50118 | Diploma of Water Industry Operations | 779 | 820 |

UNITS OF COMPETENCY AND NOMINAL HOURS

| Unit Code | Unit Title | Nominal Hours |
| --- | --- | --- |
| NWPAMG001 | Manage asset construction and maintenance | 90 |
| 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 | 30 |
| NWPCAD015 | Operate and maintain locks and weirs | 50 |
| NWPCAD016 | Operate and maintain fishways | 50 |
| NWPCAD017 | Operate and maintain salt interception works | 40 |
| NWPCAD018 | Monitor and operate bulkwater transfer systems | 30 |
| NWPCAD019 | Monitor and operate groundwater extraction | 40 |
| NWPCAD020 | Inspect and operate groundwater regulation | 40 |
| NWPCCO001 | Analyse and implement network data | 50 |
| NWPCCO002 | Use control centre systems to monitor and control water | 80 |
| NWPGEN002 | Ensure compliance with water industry standards, guidelines and legislation | 60 |
| NWPGEN005 | Coordinate and monitor the application of environmental plans and procedures | 80 |
| NWPGEN006 | Implement and manage environmental management policies | 100 |
| NWPGEN010 | Contribute to continuous improvement of quality systems | 40 |
| NWPGEN014 | Sample and test trade wastewater | 40 |
| NWPGEN015 | Develop an operational plan | 40 |
| NWPGEN016 | Interpret and comply with regulatory requirements | 60 |
| 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 | 40 |
| NWPGEN021 | Sample and test wastewater | 40 |
| NWPGEN022 | Perform laboratory testing | 40 |
| NWPGEN023 | Use maps, plans, drawings and details | 30 |
| 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 | 20 |
| NWPGEN027 | Monitor and operate pump stations | 30 |
| NWPGEN028 | Investigate and report on breaches of water industry legislation | 40 |
| NWPHYD002 | Apply principles of open channel hydraulics | 40 |
| NWPHYD003 | Develop and maintain ratings | 100 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | 40 |
| NWPIWS004 | Install meters for rural water supplies | 30 |
| 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 | 40 |
| NWPIWS008 | Monitor and conduct maintenance on rural irrigation assets | 40 |
| NWPIWS009 | Monitor and control drainage operations | 40 |
| NWPIWS010 | Monitor and control rural water distribution operations | 40 |
| NWPIWS011 | Identify and apply water entitlements and delivery processes | 30 |
| NWPIWS012 | Monitor and schedule water deliveries | 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 |
| NWPNET010 | Develop and manage an alternate water supply plan | 90 |
| NWPNET017 | Supervise and report on conduit inspections | 40 |
| NWPNET018 | Disinfect network assets | 30 |
| NWPNET019 | Prepare and restore worksite | 30 |
| NWPNET020 | Control electrical risk on metallic pipes | 10 |
| NWPNET025 | Coordinate and manage maintenance and repair of network assets | 50 |
| NWPNET028 | Monitor and operate network systems | 40 |
| NWPNET029 | Locate, identify and protect utilities | 30 |
| NWPNET030 | Identify and respond to water quality problems | 30 |
| NWPNET033 | Coordinate and monitor water asset construction | 70 |
| NWPNET035 | Perform odour and infiltration investigations | 40 |
| NWPNET036 | Perform leak detection | 40 |
| NWPNET037 | Inspect sewer or stormwater assets | 40 |
| NWPNET038 | Install metering equipment | 40 |
| NWPNET039 | Maintain and repair network assets for drinking water | 50 |
| NWPNET040 | Maintain and repair network assets for wastewater | 50 |
| NWPNET046 | Maintain and repair network assets for bulkwater | 30 |
| NWPNET047 | Install, maintain and repair hydrants | 20 |
| NWPNET048 | Monitor and control vacuum sewer systems | 50 |
| NWPNET049 | Construct and install water distribution assets | 30 |
| NWPNET050 | Construct and install wastewater collection assets | 30 |
| NWPNET051 | Monitor and operate water distribution systems | 40 |
| NWPNET052 | Monitor and operate wastewater collection and transfer systems | 40 |
| NWPNET053 | Test and commission water distribution systems | 40 |
| NWPNET054 | Test and commission wastewater collection systems | 40 |
| 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 |
| NWPSOU014 | Develop and implement catchment operational plans | 60 |
| NWPSOU026 | Implement dam safety plans | 100 |
| NWPSOU041 | Coordinate and monitor bulkwater system operations | 60 |
| NWPSOU053 | Coordinate and monitor groundwater system usage | 60 |
| 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 |
| 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 |
| 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 |
| NWPTRT005 | Monitor and operate water treatment processes | 50 |
| NWPTRT006 | Monitor and operate fluoride addition processes | 20 |
| NWPTRT007 | Monitor and operate liquefied chlorine gas disinfection processes | 40 |
| NWPTRT008 | Operate and control iron and manganese removal processes | 20 |
| NWPTRT009 | Operate and control coagulation and flocculation processes | 50 |
| NWPTRT010 | Operate and control sedimentation and clarification processes | 50 |
| NWPTRT011 | Assess and improve chemical dosing process | 60 |
| NWPTRT016 | Operate and control dissolved air flotation processes | 30 |
| NWPTRT017 | Operate and control activated carbon processes | 20 |
| NWPTRT018 | Operate and control ion exchange and softening processes | 30 |
| NWPTRT019 | Operate and control granular media filters | 50 |
| NWPTRT020 | Operate and control membrane filters | 30 |
| NWPTRT021 | Operate and control desalination processes | 40 |
| NWPTRT022 | Monitor and operate hypochlorite disinfection processes | 30 |
| 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 | 50 |
| NWPTRT028 | Operate and control reclaimed water irrigation | 40 |
| NWPTRT029 | Monitor and operate pre-treatment processes | 20 |
| NWPTRT030 | Operate and control odour removal processes | 30 |
| NWPTRT032 | Assess and improve sedimentation processes | 60 |
| NWPTRT036 | Operate and control activated sludge processes | 50 |
| NWPTRT037 | Operate and control nutrient removal processes | 40 |
| NWPTRT038 | Operate and control fixed film processes | 30 |
| NWPTRT039 | Operate and control solids handling processes | 30 |
| NWPTRT040 | Operate and control digestion processes | 40 |
| NWPTRT042 | Assess and improve granular media filters | 60 |
| NWPTRT045 | Assess and improve desalination processes | 40 |
| NWPTRT046 | Operate and control incineration processes | 40 |
| NWPTRT047 | Monitor, operate and control lagoon processes | 30 |
| NWPTRT048 | Monitor and operate reclaimed water irrigation | 30 |
| NWPTRT051 | Assess and improve treatment for pathogen removal | 40 |
| NWPTRT084 | Assess and improve activated sludge and nutrient removal processes | 60 |
| NWPTRT085 | Assess and improve wastewater processes to control microbial impacts | 40 |
| NWPTRT093 | Assess and improve anaerobic digestion processes | 60 |

CONTACTS AND LINKS

|  |  |  |
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| **Curriculum Maintenance Manager (CMM)** | | |
| Water | The CMM Service is provided on behalf of Higher Education and Skills.  CMM Service Executive Officers can assist with questions on payable and nominal hours. | Name : Teresa Signorello Address: PO Box 42 Holmesglen, VIC 3148  Phone: 03 9564 1987  Email: [teresa.signorello@holmesglen.edu.au](mailto:teresa.signorello@holmesglen.edu.au) |
| **Service Skills Organisation (SSO)** | | |
| Australian Industry Standards | This SSO is responsible for developing this **NWP National Water Training Package** and can be contacted for further information. | Phone: 03 9604 7200  Address:  Address: Level 2  31 Market Street  South Melbourne, VIC 3205  See [Australian Industry Standards website](https://www.australianindustrystandards.org.au/) for more information. |
| **National Register for VET in Australia** | | |
| Training.gov.au (TGA) | TGA is the Australian government’s official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs. | See the [National Register](http://training.gov.au/) for more information. |
| **Australian Government** | | |
| Department of Employment, Skills, Small and Family Business | The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training. | See the [Commonwealth Department of Employment, Skills, Small and Family Business website](https://www.jobs.gov.au/) for more information. |
| **State Government** | | |
| Department of Education and Training (DET) | DET is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria. | (03) 9637 2000  See the [Victorian Department of Education and Training website](http://www.education.vic.gov.au/) for more information. |
| **National VET Regulatory Authority** | | |
| Australian Skills Quality Authority (ASQA) | ASQA is the national regulator for Australia’s VET sector. | Info line: 1300 701 801  See the [ASQA website](http://www.asqa.gov.au/) for more information. |
| **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  See the [VRQA website](http://www.vrqa.vic.gov.au/) for more information. |
| **Industry Regulatory Bodies** | | |
| National Health and Medical Research Council (NHMRC) |  | 1300 064 672  NHMRC website can be found [here](http://www.nhmrc.gov.au) |
| 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](http://www.worksafe.vic.gov.au) |

GLOSSARY

|  |  |
| --- | --- |
| **Code** | Nationally endorsed Training Package qualification code. |
| **Title** | Nationally endorsed Training Package qualification title. |
| **Unit Code** | Nationally endorsed Training Package unit code. |
| **Unit Title** | Nationally endorsed Training Package unit title. |
| **Maximum Payable Hours** | The maximum number of hours the Victorian Government will subsidise under Skills First funding 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.  Minimum payable hours reflect a calculated minimum number of hours that could deliver a minimum realistic vocational outcome, based on efficiencies of contextualisation and integration. |
| **Scope of Registration** | Scope of registration specifies the AQF qualifications and/or units of competency the training organisation is registered to issue and the industry training and/or assessment services it is registered to provide. |
| **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. |