Victorian Purchasing Guide

UEG Gas Industry Training Package

Release 3.0

**December 2021**

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Victorian Purchasing Guide - Release History

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

| Training Package Release | Date VPG Approved | Comments |
| --- | --- | --- |
| Release 3.0 | 21 December 2021 | This Victorian Purchasing Guide reflects the release of the UEG Gas Training Package (Release 3.0).  This includes:   * Three (3) added qualifications and three (3) removed qualifications * Two (2) updated qualifications * Thirty-five (35) added units of competency * Twenty-one (21) removed units of competency * Fourteen (14) new units of competency |
| Release 2.1 | August 2021 | This Victorian Purchasing Guide reflects the release of the UEG Gas Training Package (Release 2.1), incorporating Release 2.0 of this Training Package.  This includes:   * One (1) new qualification (Release 2.0) * Six (6) new units of competency (Release 2.0) * Seven (7) revised units of competency (Release 2.0) * Five (5) revised qualifications with the removal of deleted units of competency (Release 2.1) * One (1) deleted qualification with zero enrolments (Release 2.1)   Seventeen (17) deleted units of competency with zero enrolments (Release 2.1) |
| Release 1.0 | October 2018 | This Victorian Purchasing Guide reflects the initial release of the UEG Gas Training Package (Release 1.0).  This includes:   * Transitioning to the 2012 Standard for Training Packages * One new unit of competency:   UEGNSG200 Conduct butt fusion of large diameter polyethylene gas pipeline systems |

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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 UEG Gas Industry Training Package Release 3.0 is provided in theTraining PackageCompanionVolume Implementation Guide. (See [VETnet.gov.au](https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=9fc2cf53-e570-4e9f-ad6a-b228ffdb6875) 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 UEG Gas Industry 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 |
| --- | --- | --- | --- |
| UEG20121 | Certificate II in Gas Supply Industry Operations | 365 | 380 |
| UEG30121 | Certificate III in Gas Supply Industry Operations | 925 | 975 |
| UEG40120 | Certificate IV in Gas Control Operations | 1100 | 1160 |
| UEG40221 | Certificate IV in Gas Supply Industry Operations | 1185 | 1265 |
| UEG50120 | Diploma of Gas Supply Industry Operations | 1635 | 1720 |

# Units of Competency and Nominal Hours

| Unit Code | Unit Title | Nominal Hours |
| --- | --- | --- |
| UEGNSG004 | Locate, prove and protect utility assets | 60 |
| UEGNSG005 | Prepare to work in the gas industry | 20 |
| UEGNSG006 | Use a portable gas detector to locate escape | 40 |
| UEGNSG101 | Undertake gas leak surveys | 60 |
| UEGNSG102 | Prepare safe design specifications of a gas system | 120 |
| UEGNSG103 | Install and commission stationary gas fuelled turbine engines | 60 |
| UEGNSG106 | Coordinate repair of pipeline, facilities and equipment | 120 |
| UEGNSG108 | Operate and monitor pipeline control systems | 60 |
| UEGNSG109 | Control field pipeline operations | 60 |
| UEGNSG110 | Supervise technical operations for gas distribution or transmission | 100 |
| UEGNSG113 | Manage a utilities industry WHS management system | 80 |
| UEGNSG120 | Manage gas system environmental compliance | 60 |
| UEGNSG131 | Compile a gas industry technical report | 20 |
| UEGNSG132 | Carry out basic work activities in a gas industry work environment | 60 |
| UEGNSG133 | Comply with environmental policies and procedures in the utilities industry | 60 |
| UEGNSG134 | Establish a utilities infrastructure work site | 60 |
| UEGNSG135 | Monitor and control gas odourisation | 80 |
| UEGNSG137 | Operate and maintain gas station water bath heaters | 60 |
| UEGNSG139 | Repair and maintain stationary gas fuelled turbine engines | 60 |
| UEGNSG140 | Apply environmental policies and procedures in the utilities industry | 20 |
| UEGNSG141 | Apply workplace health and safety regulations, codes and practices in the gas supply industry | 20 |
| UEGNSG142 | Conduct isolations under the permit to work system for gas industry work sites | 80 |
| UEGNSG200 | Conduct butt fusion of large diameter polyethylene gas pipeline systems | 20 |
| UEGNSG201 | Conduct distribution pipeline emergency repair | 80 |
| UEGNSG202 | Conduct emergency site control on gas distribution assets | 80 |
| UEGNSG203 | Evaluate and extinguish gas fire | 20 |
| UEGNSG205 | Commission or decommission gas distribution pipelines | 100 |
| UEGNSG206 | Construct and lay copper and stainless-steel gas distribution pipelines | 60 |
| UEGNSG208 | Construct and lay large copper gas distribution pipelines | 60 |
| UEGNSG209 | Construct and lay polyethylene gas distribution mains | 60 |
| UEGNSG210 | Supervise and monitor contract staff for work on distribution pipelines | 100 |
| UEGNSG211 | Construct and lay steel gas distribution pipelines | 60 |
| UEGNSG212 | Construct, lay and connect a gas distribution service to a plastic main | 40 |
| UEGNSG213 | Construct, lay and connect a gas distribution service to a steel main | 40 |
| UEGNSG214 | Coordinate and conduct gas distribution pipeline repair and modifications | 80 |
| UEGNSG215 | Coordinate construction, laying and testing of gas distribution pipelines | 100 |
| UEGNSG217 | Launch and recover PIGs in a gas distribution pipeline | 80 |
| UEGNSG218 | Carry out surveillance on gas distribution assets | 100 |
| UEGNSG219 | Conduct excavations in the utilities industry | 40 |
| UEGNSG222 | Construct and lay nylon or PVC gas distribution mains | 60 |
| UEGNSG225 | Perform routine maintenance on distribution pipeline facilities and equipment | 100 |
| UEGNSG226 | Assist with the construction, laying and connection of gas distribution services to mains | 40 |
| UEGNSG227 | Assist with the construction and laying of gas distribution mains | 40 |
| UEGNSG229 | Prepare simple drawings of as laid gas mains and services | 40 |
| UEGNSG230 | First on-site response to gas pipeline emergencies | 80 |
| UEGNSG301 | Conduct emergency site control on gas transmission assets | 80 |
| UEGNSG302 | Conduct transmission pipeline emergency repair | 80 |
| UEGNSG303 | Carry out transmission pipeline construction work activities | 60 |
| UEGNSG304 | Commission or decommission gas transmission pipelines | 120 |
| UEGNSG305 | Coordinate gas transmission pipeline repair and modifications | 80 |
| UEGNSG306 | Control gas processing, storage or regasification operations in an LNG storage facility | 100 |
| UEGNSG307 | Coordinate the operation of relevant plant and equipment for transmission pipeline construction | 60 |
| UEGNSG309 | Coordinate transmission pipeline construction operations | 60 |
| UEGNSG310 | Supervise and monitor contract work | 60 |
| UEGNSG312 | Inject gas into underground storage | 60 |
| UEGNSG313 | Monitor and operate flow control, pressure measuring and regulating devices for gas transmission | 100 |
| UEGNSG314 | Liaise with third party and the community to maintain pipeline integrity and community safety | 40 |
| UEGNSG315 | Withdraw gas from underground storage | 60 |
| UEGNSG316 | Work in proximity of transmission pipeline construction plant and equipment | 30 |
| UEGNSG317 | First response to a gas facility event | 60 |
| UEGNSG326 | Coordinate and monitor staff and contractors | 60 |
| UEGNSG330 | Coat metallic pipelines | 100 |
| UEGNSG331 | Establish right of way access for transmission pipeline construction | 30 |
| UEGNSG342 | Maintain pipeline easements | 45 |
| UEGNSG346 | Launch and recover PIGs in gas transmission pipelines | 40 |
| UEGNSG347 | Perform routine maintenance on transmission pipeline facilities and equipment | 100 |
| UEGNSG348 | Supervise the operation of plant and equipment for the construction of gas transmission pipelines | 60 |
| UEGNSG349 | Carry out surveillance of gas transmission pipelines | 100 |
| UEGNSG352 | Check and report on gas station conditions | 40 |
| UEGNSG353 | Carry out aerial surveillance of gas transmission pipelines | 40 |
| UEGNSG354 | Control excavations in the vicinity of gas transmission pipelines | 60 |
| UEGNSG355 | Monitor and report on cathodic protection systems | 40 |
| UEGNSG411 | Maintain cathodic protection systems | 80 |
| UEGNSG412 | Install cathodic protection systems | 100 |
| UEGNSG501 | Communicate with gas industry stakeholders to meet operational requirements | 80 |
| UEGNSG502 | Implement emergency and critical incident response for gas infrastructure incidents | 80 |
| UEGNSG503 | Monitor and control field activities | 80 |
| UEGNSG504 | Monitor and control gas infrastructure using Control Centre systems | 80 |
| UEGNSG505 | Operate and monitor gas infrastructure to meet nominated demand | 80 |
| UEGNSG506 | Respond to gas infrastructure emergencies | 80 |
| UEGNSG509 | Remotely monitor and operate gas transmission flow and pressure measuring and regulating devices | 90 |
| UEGNSG614 | Load, unload, exchange and connect LPG cylinders | 45 |
| UEGNSG615 | Fill LPG cylinders | 45 |
| UEGNSG616 | Refurbish gas cylinders | 45 |
| UEGNSG617 | Monitor and control the transfer of bulk LPG | 100 |
| UEGNSG618 | Process liquefied petroleum gas (LPG) | 100 |
| UEGNSG619 | Perform scheduled maintenance on gas processing or storage facilities and equipment | 100 |
| UEGNSG620 | Organise the repair of faults in LPG processing or storage facilities and equipment | 100 |
| UEGNSG621 | Control bulk storage of LPG | 100 |
| UEGNSG622 | Assess the operational capability of gas safety equipment on a delivery vehicle | 40 |
| UEGNSG701 | Disconnect and reconnect data logging equipment | 30 |
| UEGNSG702 | Disconnect and reconnect small capacity gas meters | 40 |
| UEGNSG703 | Fault find and repair data logging equipment | 60 |
| UEGNSG704 | Install and commission data logging equipment | 50 |
| UEGNSG706 | Test new residential and small commercial gas installations | 60 |
| UEGNSG707 | Process data logging information | 40 |
| UEGNSG708 | Pressure test residential and small commercial gas installations | 40 |
| UEGNSG709 | Process meter reading information using appropriate technology | 45 |
| UEGNSG710 | Read and record meter readings | 45 |
| UEGNSG713 | Investigate billing exceptions-conditions | 60 |
| UEGNSG714 | Relight Type A gas appliances | 40 |
| UEGNSG715 | Use data logging equipment | 30 |
| UEGNSG804 | Maintain single stage and single run gas flow and pressure control and measuring devices | 80 |
| UEGNSG805 | Maintain multi-stage and multi-run and pressure measuring and regulating devices | 80 |
| UEGNSG806 | Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment | 100 |
| UEGNSG807 | Install gas flow, measuring and pressure regulating devices | 80 |
| UEGNSG811 | Monitor and operate complex flow control, measuring and regulating devices for gas distribution | 100 |
| UEGNSG901 | Apply safety practices, procedures, and compliance standards for handling hydrogen gas | 40 |
| UEGNSG902 | Commission, operate and maintain electrolysers | 80 |
| UEGNSG903 | Fault find and repair hydrogen storage equipment | 80 |
| UEGNSG904 | Inject hydrogen gas into distribution networks | 60 |
| UEGNSG905 | Monitor and control hydrogen in gas distribution networks | 40 |
| UEGNSG906 | Undertake routine hydrogen storage operations | 60 |

# Contacts and Links

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| Curriculum Maintenance Manager (CMM) | | |
| Engineering Industries | 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. | George Adda  Supervising Executive Officer  Private Bag 2014, Box Hill, Victoria 3128  Phone: +61 3 9286 9880  [g.adda@boxhill.edu.au](mailto:g.adda@boxhill.edu.au)  Alternative Contact:  Steve Bryant  Phone: +61 479 184 251  [steven.bryant@boxhill.edu.au](mailto:steven.bryant@boxhill.edu.au) |
| Service Skills Organisation (SSO) | | |
| Australian Industry Standards | This SSO is responsible for developing the UEG Gas Industry Training Package and can be contacted for further information. | (03) 9604 7200  More information and contact can be made at [www.australianindustrystandards.org.au](http://www.australianindustrystandards.org.au). |
| 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 [training.gov.au](http://training.gov.au/) for more information. |
| Australian Government | | |
| Department of Education, Skills and Employment | The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training. | See [dese.gov.au](https://www.dese.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 [education.vic.gov.au](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 [asqa.gov.au](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 [vrqa.vic.gov.au](http://www.vrqa.vic.gov.au/) |
| Industry Regulatory Bodies | | |
| Energy Safe Victoria (ESV) | Energy Safe Victoria (ESV) The industry Regulatory body can provide advice on licensing, legislative or regulatory requirements that may impact on the delivery of training or the issuance of qualifications in this Training Package. | (03) 9203 9700  [info@esv.vic.gov.au](file:///C:/Users/09059065/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/U2QALYNO/info@esv.vic.gov.au)  More information is available from [esv.vic.gov.au](https://esv.vic.gov.au/). |
| WorkSafe Victoria | WorkSafe need to provide written verification before high-risk work units can be added to an RTO’s scope of registration. | 222 Exhibition Street,  Melbourne 3000  (03) 9641 1444 or  1800 136 089 (toll free)  [info@worksafe.vic.gov.au](mailto:info@worksafe.vic.gov.au)  See [worksafe.vic.gov.au](http://www.worksafe.vic.gov.au/) for further information. |

# 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. |