



VICTORIAN PURCHASING GUIDE

UEP ELECTRICITY SUPPLY INDUSTRY
- GENERATION SECTOR
TRAINING PACKAGE RELEASE 3.0

FEBRUARY 2023



Jobs, Skills,
Industry
and Regions

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VICTORIAN PURCHASING GUIDE – RELEASE HISTORY

Note: RTOs should refer to the [National Register](#) for the detail of changes in each Release.

Training Package Release	Date VPG Approved	Comments
Release 3.0	10 February 2023	<p>This Victorian Purchasing Guide (VPG) incorporates Releases 2 and 3 of the UEP Electricity Supply Industry – Generation Sector training Package. The VPG for Release 2 was delayed pending corrections to packaging rules. Note changes apply to the following:</p> <ul style="list-style-type: none">• UEP20222 Certificate II in Remote Area Essential Service• UEP30322 Certificate III in ESI Generation• UEP40122 Certificate IV in ESI Generation• UEP40622 Certificate IV in Wind Power Generation• UEP50122 Diploma of ESI Generation• UEPMNT007 Diagnose and repair mechanical systems faults in wind turbines.• UEPOPS008 Operate and monitor control room site in a multi-function environment• UEPOPS146 Operate and monitor hydro plant/systems• UEPOPS148 Operate and monitor local grid operations control room• UEPOPS150 Operate and monitor multiple facilities from single control room• UEPOP152 Operate renewable energy generation and storage system
Release 1.0	28 March 2019	<p>This Guide reflects the initial release of the UEP Electricity Supply Industry – Generation Sector Training Package (Release 1.0)</p> <ul style="list-style-type: none">• Transition of thirteen qualifications from the UEP12 to the Standards for Training Packages:<ul style="list-style-type: none">○ UEP20118 Certificate II in ESI Generation - Operations Support○ UEP20218 Certificate II in Remote Area Essential Service○ UEP30118 Certificate III in ESI Generation - Systems Operations○ UEP30218 Certificate III in ESI Generation - Operations○ UEP40118 Certificate IV in ESI Generation - Systems Operations○ UEP40218 Certificate IV in ESI Generation - Operations○ UEP40318 Certificate IV in ESI Generation Maintenance - Electrical Electronics○ UEP40418 Certificate IV in ESI Generation Maintenance (Fabrication)○ UEP40518 Certificate IV in ESI Generation Maintenance (Mechanical)○ UEP40618 Certificate IV in Large Scale Wind Generation - Electrical○ UEP50118 Diploma of ESI Generation - Systems Operations○ UEP50218 Diploma of ESI Generation - Operations○ UEP50318 Diploma of ESI Generation (Maintenance)○ UEP50418 Diploma of ESI Generation Maintenance - Electrical Electronic• Inclusion of one new qualification transferred from the UEE11 Electrotechnology Training Package:<ul style="list-style-type: none">○ UEP20218 Certificate II in Remote Area Essential Service



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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 4.0 is provided in the Training Package Companion Volume Implementation Guide. (See VETnet.gov.au 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 Training Package Release 4.0 is conducted against the Training Package units of competency and complies with the assessment requirements.

QUALIFICATIONS

Code	Title	Minimum Payable Hours	Maximum Payable Hours
UEP20122	Certificate II in ESI Generation - Operations Support	355	374
UEP20222	Certificate II in Remote Area Essential Service	404	425
UEP30322	Certificate III in ESI Generation	1328	1398
UEP40122	Certificate IV in ESI Generation	950	1000
UEP40322	Certificate IV in ESI Generation Maintenance - Electrical Electronics	1169	1230
UEP40422	Certificate IV in ESI Generation Maintenance (Fabrication)	1216	1280
UEP40522	Certificate IV in ESI Generation Maintenance (Mechanical)	1216	1280
UEP40622	Certificate IV in Wind Power Generation	693	729
UEP50122	Diploma of ESI Generation	1539	1620

UNITS OF COMPETENCY AND NOMINAL HOURS

Unit Code	Unit Title	Nominal Hours
UEPMNT001	Carry out routine work activities in an electricity supply industry generation environment	40
UEPMNT002	Carry out routine work activities in an ESI large scale wind generation environment	40
UEPMNT003	Coordinate maintenance on a wind farm	60
UEPMNT004	Diagnose and repair faults in large scale wind turbine generators	60
UEPMNT005	Diagnose and repair faults in wind turbine control systems	60
UEPMNT006	Diagnose and repair faults in wind turbine electrical systems	60
UEPMNT007	Diagnose and repair mechanical systems faults in wind turbines	50
UEPMNT008	Maintain and monitor wind farm civil assets	40
UEPMNT009	Maintain large scale wind turbines	60
UEPMNT010	Maintain wind turbine control systems	60
UEPMNT011	Maintain wind turbine electrical systems	60
UEPMNT012	Maintain wind turbine mechanical systems	60
UEPMNT013	Monitor climatic conditions for renewable electricity generation	40
UEPMNT014	Test and commission wind turbines	60
UEPMNT302	Install and maintain industrial pipe work	40
UEPMNT303	Maintain mechanical valves	40
UEPMNT304	Maintain mechanical pumps	40
UEPMNT305	Maintain industrial fans	40
UEPMNT307	Maintain industrial screens, strainers and filters	20
UEPMNT308	Maintain conveyors and associated equipment	40
UEPMNT309	Maintain material feeders	40

Unit Code	Unit Title	Nominal Hours
UEPMNT310	Maintain material crushers	40
UEPMNT312	Maintain industrial pressure vessels	80
UEPMNT314	Maintain hydro turbines	100
UEPMNT317	Diagnose and repair faults in mechanical equipment	40
UEPMNT318	Conduct generator mechanical maintenance	80
UEPMNT340	Fabricate metal structures and components	40
UEPMNT346	Maintain electrical equipment	40
UEPMNT347	Maintain complex electrical equipment	40
UEPMNT348	Maintain electrical electronic equipment	40
UEPMNT350	Modify electrical equipment	40
UEPMNT351	Test and commission electrical equipment	40
UEPMNT355	Install complex electronic instrumentation equipment	40
UEPMNT356	Maintain instrumentation equipment	40
UEPMNT357	Diagnose and repair faults in instrumentation equipment	20
UEPMNT358	Modify instrumentation equipment	20
UEPMNT359	Test and commission instrumentation equipment	20
UEPMNT366	Maintain power plant inverter systems	60
UEPMNT367	Install and commission stationary gas fuelled reciprocating engines	60
UEPMNT368	Repair and maintain stationary gas fuelled reciprocating engines	60
UEPMNT401	Install and maintain complex mechanical seals	40
UEPMNT402	Conduct complex levelling and alignment	40
UEPMNT403	Maintain complex mechanical valves	40

Unit Code	Unit Title	Nominal Hours
UEPMNT404	Maintain complex mechanical pumps	40
UEPMNT408	Install hydro turbines	100
UEPMNT410	Diagnose and repair faults in electronic equipment	40
UEPMNT411	Diagnose and repair faults in complex electrical equipment	40
UEPMNT412	Modify complex electrical equipment	60
UEPMNT414	Test and commission complex electrical equipment	40
UEPMNT417	Inspect electrical generators and diagnose faults	60
UEPMNT419	Perform civil drafting	80
UEPMNT421	Conduct technical inspection of process plant and equipment	60
UEPMNT422	Conduct performance testing on process plant and equipment	60
UEPMNT425	Maintain complex instrumentation equipment	80
UEPMNT427	Diagnose and repair faults in complex instrumentation equipment	80
UEPMNT428	Modify complex instrumentation equipment	80
UEPMNT430	Test and commission complex instrumentation equipment	80
UEPMNT433	Conduct routine generator electrical maintenance	80
UEPMNT440	Diagnose and repair faults in power plant inverter systems	80
UEPOPL003	Licence to operate a reciprocating steam engine	60
UEPOPL004	Licence to operate a steam turbine	60
UEPOPS001	Analyse single protection device operation	30
UEPOPS002	Apply environmental and sustainable energy procedures	20
UEPOPS003	Apply quality systems to work	20
UEPOPS004	Carry out operational checks on in-service electrical plant	20

Unit Code	Unit Title	Nominal Hours
UEPOPS005	Clean plant and equipment	20
UEPOPS006	Collect and analyse hydrological and meteorological data	40
UEPOPS007	Conduct chemical batching operations	20
UEPOPS008	Operate and monitor control room site in a multi-function environment	30
UEPOPS009	Conduct minor electrical maintenance	20
UEPOPS010	Conduct minor mechanical maintenance	20
UEPOPS011	Conduct multiple energy source isolation procedures for permit to work	40
UEPOPS012	Conduct non-routine operational testing	20
UEPOPS013	Conduct operational checks and carry out corrective action on in-service electrical plant	40
UEPOPS014	Conduct operational checks on in-service mechanical plant	20
UEPOPS015	Conduct project management	80
UEPOPS016	Conduct routine wind turbine maintenance	40
UEPOPS017	Conduct single energy source isolation procedures for permit to work	40
UEPOPS018	Conduct water conveyance and control	30
UEPOPS019	Control electrical energy production	40
UEPOPS020	Control hydro generation pumping	60
UEPOPS021	Control permit to work operations	20
UEPOPS022	Coordinate and direct switching program	60
UEPOPS023	Coordinate electrical energy production	60
UEPOPS024	Coordinate first response team operation	20
UEPOPS025	Coordinate local H.V. networks	30

Unit Code	Unit Title	Nominal Hours
UEPOPS026	Coordinate network/system	60
UEPOPS027	Coordinate operational strategies for power production	40
UEPOPS028	Coordinate permit to work system	40
UEPOPS029	Coordinate photovoltaic solar power plant operations	60
UEPOPS030	Coordinate power generation	40
UEPOPS031	Coordinate response to critical incidents	30
UEPOPS032	Coordinate team activities	20
UEPOPS033	Coordinate the use of contingency plans	40
UEPOPS034	Coordinate wind farm operations	60
UEPOPS035	Coordinate workplace communication	40
UEPOPS036	Develop H.V. switching programs	20
UEPOPS037	Ensure compliance with work health and safety policy and procedures	20
UEPOPS038	Evaluate cost estimations and initiate appropriate solutions	40
UEPOPS039	Evaluate scheduling of generation plant	60
UEPOPS040	Facilitate the use of contingency plans for power generation facilities	40
UEPOPS041	Facilitate workplace communication	20
UEPOPS042	Implement dam safety surveillance procedures	30
UEPOPS043	Interpret and analyse multi-operation protection devices	40
UEPOPS044	Liaise with stakeholders	20
UEPOPS045	Maintain and utilise records	20
UEPOPS046	Maintain battery banks and cells	20
UEPOPS047	Maintain quality systems within the team	20

Unit Code	Unit Title	Nominal Hours
UEPOPS048	Manage commissioning and decommissioning	80
UEPOPS049	Manage critical incidents	60
UEPOPS050	Manage environmental management systems	40
UEPOPS051	Manage first response team	40
UEPOPS052	Manage high voltage network system	80
UEPOPS053	Manage operational crisis to maintain or restore power system integrity	60
UEPOPS054	Manage operational strategies for power production	80
UEPOPS055	Manage permit to work system	40
UEPOPS056	Manage quality control procedures	60
UEPOPS057	Manage system restart	40
UEPOPS058	Manage work health and safety policy and procedures	40
UEPOPS059	Manage, operate and monitor a gas turbine unit	30
UEPOPS060	Monitor and coordinate the operation of a combined cycle gas turbine unit	60
UEPOPS061	Monitor and implement environmental site plans and procedures	40
UEPOPS062	Monitor and maintain civil assets	30
UEPOPS063	Monitor and maintain wind farm civil assets	40
UEPOPS064	Monitor climatic conditions for renewable energy production	40
UEPOPS065	Monitor implementation of quality control for production and maintenance	40
UEPOPS066	Monitor power generation plant reliability	80
UEPOPS067	Monitor the implementation of under frequency load shedding	30
UEPOPS068	Operate a hydro generator synchronous condenser pump unit	40

Unit Code	Unit Title	Nominal Hours
UEPOPS069	Operate air conditioning plant	20
UEPOPS070	Operate and monitor a boiler unit	30
UEPOPS071	Operate and monitor a heat recovery steam generator unit	40
UEPOPS072	Operate and monitor a hydro turbine	30
UEPOPS073	Operate and monitor a steam turbine	30
UEPOPS075	Operate and monitor a.c. electrical systems	30
UEPOPS076	Operate and monitor air conditioning plant and ventilation systems	20
UEPOPS077	Operate and monitor alkalinity reduction plant	20
UEPOPS078	Operate and monitor an internal combustion dual fuel reciprocating engine	20
UEPOPS079	Operate and monitor an internal combustion single fuel reciprocating engine	20
UEPOPS080	Operate and monitor ash and dust disposal plant	20
UEPOPS081	Operate and monitor auxiliary steam systems	30
UEPOPS082	Operate and monitor boiler draught system	20
UEPOPS083	Operate and monitor boiler steam/water cycle	40
UEPOPS084	Operate and monitor brine concentrator plant	20
UEPOPS085	Operate and monitor communications system	20
UEPOPS086	Operate and monitor compressed air systems	20
UEPOPS087	Operate and monitor compressed gas systems	20
UEPOPS088	Operate and monitor condenser and auxiliary cooling systems	30
UEPOPS089	Operate and monitor d.c. electrical systems	30
UEPOPS090	Operate and monitor dual fuel firing plant	40
UEPOPS091	Operate and monitor dust collection plant	20

Unit Code	Unit Title	Nominal Hours
UEPOPS092	Operate and monitor fixed fire protection systems	20
UEPOPS093	Operate and monitor flue gas (NOx) mitigation systems	40
UEPOPS094	Operate and monitor fuel firing plant - coal	40
UEPOPS095	Operate and monitor fuel firing plant - gas/oil	20
UEPOPS096	Operate and monitor fuel supply	20
UEPOPS097	Operate and monitor fuel supply - coal	40
UEPOPS098	Operate and monitor gas production plant	20
UEPOPS099	Operate and monitor generator/alternator	30
UEPOPS100	Operate and monitor heat exchangers and cooling systems	30
UEPOPS101	Operate and monitor HRSG hot gas control system	40
UEPOPS102	Operate and monitor hydro plant auxiliary systems	30
UEPOPS103	Operate and monitor hydro unit control and protection systems	60
UEPOPS104	Operate and monitor oil systems	40
UEPOPS105	Operate and monitor reverse osmosis plant	20
UEPOPS106	Operate and monitor site services water systems	20
UEPOPS107	Operate and monitor supervisory control and data acquisition systems	30
UEPOPS108	Operate and monitor system equipment	30
UEPOPS109	Operate and monitor water quality monitoring systems	40
UEPOPS110	Operate and monitor water systems condensate and feedwater	40
UEPOPS111	Operate and monitor water treatment plant	40
UEPOPS112	Operate bulk coal handling plant	40
UEPOPS113	Operate fabric filter dust collection plant	20

Unit Code	Unit Title	Nominal Hours
UEPOPS114	Operate H.V. condition changing apparatus	20
UEPOPS115	Operate hydroelectric generating plant and auxiliary equipment	30
UEPOPS116	Operate local H.V. switchgear	40
UEPOPS117	Operate local L.V. switchgear	20
UEPOPS118	Operate manual systems	30
UEPOPS119	Operate waste and contaminated water plant	20
UEPOPS120	Undertake operational commissioning and decommissioning	40
UEPOPS121	Perform plant lubrication	20
UEPOPS122	Perform process plant inspections	20
UEPOPS123	Perform risk analysis of generation plant	30
UEPOPS124	Perform switching to a switching program	30
UEPOPS125	Perform tool store duties	20
UEPOPS126	Plan a scheduled outage	40
UEPOPS127	Plan and organise work	20
UEPOPS128	Produce maintenance plans for generation production plant	40
UEPOPS129	Produce maintenance strategies for generation production plant	40
UEPOPS130	Respond to a critical incident	40
UEPOPS131	Run up a steam turbine	40
UEPOPS132	Schedule generation	20
UEPOPS133	Shut down a boiler unit	20
UEPOPS134	Shut down a gas turbine	20
UEPOPS135	Shut down a heat recovery steam generator unit	20

Unit Code	Unit Title	Nominal Hours
UEPOPS136	Shut down a hydro turbine	30
UEPOPS137	Shut down a steam turbine	30
UEPOPS138	Start and run up gas turbine	20
UEPOPS139	Start and run up a hydro turbine	40
UEPOPS140	Start up a boiler unit	40
UEPOPS141	Start up a heat recovery steam generator unit	40
UEPOPS142	Transport plant and equipment	40
UEPOPS143	Tune process plant and equipment	60
UEPOPS144	Undertake dam safety surveillance	30
UEPOPS145	Undertake local systems operations	30
UEPOPS146	Operate and monitor hydro plant/systems	30
UEPOPS148	Operate and monitor local grid operations control room	40
UEPOPS150	Operate and monitor multiple facilities from single control room	30
UEPOPS152	Operate Renewable Energy Generation and Storage systems	30

CONTACTS AND LINKS

Curriculum Maintenance Manager (CMM) Service

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.

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Jobs and Skills Council (JSC)

As part of the National Industry Engagement Reforms, new Jobs and Skills Councils (JSCs) are being established. At the time of publication, the entity and contact details for the JSC had not yet been announced. For more information see [Industry Engagement Reforms - Department of Employment and Workplace Relations, Australian Government \(dewr.gov.au\)](#)

National Register of 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 for more information.

Australian Government - Department of Employment and Workplace Relations (DEWR)

The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training. See [Skills and Training - DEWR](#) for more information.

State Government - Department of Jobs, Skills, Industry and Regions (DJSIR)

DJSIR (formerly Department of Education and Training) is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria. See djsir.vic.gov.au for more information. (03) 9637 2000

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 for more information.

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

INDUSTRY REGULATORY BODIES

WorkSafe Victoria

The industry Regulatory body can provide advice on licensing, legislative or regulatory requirements which may impact on the delivery of training or the issuance of qualifications in this Training Package. WorkSafe needs to provide written verification before high-risk work units can be added to an RTO's scope of registration. info@worksafe.vic.gov.au See worksafe.vic.gov.au for further information.

222 Exhibition Street,
Melbourne 3000
(03) 9641 1444 or
1800 136 089 (toll free)

Energy Safe Victoria

The industry Regulatory body can provide advice on licensing, legislative or regulatory requirements which may impact on the delivery of training or the issuance of qualifications in this Training Package. See <https://esv.vic.gov.au> for further information

(03) 9203 9700 or
1800 800 158 (toll free)
General queries: info@energysafe.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	<p>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.</p> <p>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.</p>
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 (DJSIR) and are primarily developed for funding purposes in Victoria.