

**Victorian Purchasing Guide  
for  
UEP12 Electricity Supply Industry – Generation Sector  
Training Package  
Version 2**

**May 2013**





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## Victorian Purchasing Guide — Version History

Training Package Version	Date VPG Approved	Comments
UEP12 Electricity Supply Industry – Generation Sector Training Package 2	16 <sup>th</sup> May 2013	<ul style="list-style-type: none"> <li>• 1 new qualification                             <ul style="list-style-type: none"> <li>○ UEP40612- Certificate IV in Large Scale Wind Generation - Electrical</li> </ul> </li> <li>• 14 new units of competency</li> <li>• 23 new imported units of competency</li> </ul>
UEP12 Electricity Supply Industry – Generation Sector Training Package 1	22 <sup>nd</sup> November 2012	<ul style="list-style-type: none"> <li>• Initial Release</li> </ul>

# Training Package 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 nominal hour range (minimum-maximum) available for each qualification.
- Nominal hours for each unit of competency within the Training Package.
- Sample Training Programs

### ***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 Quality Framework (AQF).

The VRQA is the regulatory authority for Victoria that registers VET training organisations who provide courses to domestic students only and who only offer training in Victoria.

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	Qualification Nominal Hour Range	
		Minimum	Maximum
UEP20112	Certificate II in ESI Generation (Operations Support)	354	374
UEP30112	Certificate III in ESI Generation (Systems Operations)	722	960
UEP30212	Certificate III in ESI Generation (Operations)	742	976
UEP40112	Certificate IV in ESI Generation (Systems Operations)	1050	1300
UEP40212	Certificate IV in ESI Generation (Operations)	1090	1380
UEP40312	Certificate IV in ESI Generation Maintenance (Mechanical)	1210	1310
UEP40412	Certificate IV in ESI Generation Maintenance (Fabrication)	1240	1330
UEP40512	Certificate IV in ESI Generation Maintenance (Electrical/Electronic)	1160	1340
UEP40612	Certificate IV in Large Scale Wind Generation - Electrical	1220	1340
UEP50112	Diploma of ESI Generation (Systems Operations)	1470	1780
UEP50212	Diploma of ESI Generation (Operations)	1360	1720
UEP50312	Diploma of ESI Generation (Maintenance)	1400	1600
UEP50412	Diploma of ESI Generation (Electrical/Electronic)	1600	1700

## UNITS OF COMPETENCY AND NOMINAL HOURS

RTOs are advised that there is a mapping inside the Training Package that describes the relationship between new units and superseded or replaced units from the previous version of **UEP12 Electricity Supply Industry – Generation Sector Training Package**. Information regarding transition arrangements can be obtained from the state or national VET Regulating Authority (see Contacts and Links section).

You must be sure that all training and assessment leading to qualifications or Statements of Attainment from the **UEP12 Electricity Supply Industry – Generation Sector Training Package** is conducted against the Training Package units of competency and complies with the requirements in the assessment guidelines.

### Listing of the Units of Competency and Nominal Hours

Unit Code	Unit Title	Nominal Hours
UEPMNT201A	Carry out routine work activities in an electricity supply industry generation environment	40
UEPMNT202A	Carry out routine work activities in an ESI large scale wind generation environment	40
UEPMNT302B	Install and Maintain Industrial Pipework	40
UEPMNT303B	Maintain Mechanical Valves	40
UEPMNT304B	Maintain Mechanical Pumps	40
UEPMNT305B	Maintain Industrial Fans	40
UEPMNT307B	Maintain Industrial Screens, Strainers and Filters	20
UEPMNT308B	Maintain Conveyors and Associated Equipment	40
UEPMNT309B	Maintain Material Feeders	40
UEPMNT310B	Maintain Material Crushers	40
UEPMNT311B	Maintain Fuel Transport Equipment	80
UEPMNT312B	Maintain Industrial Pressure Vessels	80
UEPMNT313B	Maintain Internal Combustion Engines	100
UEPMNT314B	Maintain Hydro Turbines	100
UEPMNT315B	Maintain Wind Turbines	100
UEPMNT317B	Diagnose and Repair Faults In Mechanical Equipment	40
UEPMNT318B	Conduct Generator Mechanical Maintenance	80
UEPMNT319B	Maintain and Test Fixed Fire Protection Systems	20
UEPMNT320B	Inspect and Repair/Replace Faults in Mechanical Equipment/Components	40
UEPMNT339B	Perform Sheet Metal Work	60
UEPMNT340B	Fabricate Metal Structures and Components	40
UEPMNT345B	Install Electronic Electrical Equipment	40
UEPMNT346B	Maintain Electrical Equipment	40
UEPMNT347B	Maintain Complex Electrical Equipment	40
UEPMNT348B	Maintain Electrical Electronic Equipment	40
UEPMNT350B	Modify Electrical Equipment	40
UEPMNT351B	Test and Commission Electrical Equipment	40

Unit Code	Unit Title	Nominal Hours
UEPMNT352B	Test and Commission Electronic Electrical Equipment	40
UEPMNT355B	Install Complex / Electronic Instrumentation Equipment	40
UEPMNT356B	Maintain Instrumentation Equipment	40
UEPMNT357B	Diagnose and Repair Faults in Instrumentation Equipment	20
UEPMNT358B	Modify Instrumentation Equipment	20
UEPMNT359B	Test and Commission Instrumentation Systems	20
UEPMNT361A	Maintain Wind Turbine Mechanical Systems	60
UEPMNT362A	Maintain Wind Turbine Control Systems	60
UEPMNT366A	Maintain power plant inverter systems	60
UEPMNT367A	Install and commission stationary gas fuelled plant and equipment	60
UEPMNT368A	Repair and maintain stationary gas fuelled reciprocating engines	60
UEPMNT369A	Monitor climatic conditions for renewable electricity generation	40
UEPMNT370A	Monitor and maintain wind farm civil assets	40
UEPMNT371A	Maintain large scale wind turbine generators	60
UEPMNT401B	Install and Maintain Complex Mechanical Seals	40
UEPMNT402B	Conduct Complex Levelling and Alignment	40
UEPMNT403B	Maintain Complex Mechanical Valves	40
UEPMNT404B	Maintain Complex Mechanical Pumps	40
UEPMNT406B	Install and Maintain a Steam Turbine	100
UEPMNT407B	Install and Maintain a Gas Turbine	100
UEPMNT408B	Install Hydro Turbines	100
UEPMNT410B	Diagnose and Repair Faults in Electronic Equipment	40
UEPMNT411B	Diagnose and Repair Faults in Complex Electrical Equipment	40
UEPMNT412B	Modify Complex Electrical Equipment	60
UEPMNT413B	Modify Electronic Electrical Equipment	40
UEPMNT414B	Test and Commission Complex Electrical Equipment	40
UEPMNT415B	Diagnose and Repair Faults in Complex Refrigeration/ Air Conditioning Equipment	40
UEPMNT416B	Overhaul Electrical Generators	60
UEPMNT417B	Inspect Electrical Generators and Diagnose Faults	60
UEPMNT419B	Perform Civil Drafting	80
UEPMNT421B	Conduct Technical Inspection of Process Plant and Equipment	60
UEPMNT422B	Conduct Performance Testing on Process Plant and Equipment	60
UEPMNT424B	Monitor Efficiency of Thermal Steam Cycle Power Plant	60
UEPMNT425B	Maintain Complex Instrumentation Equipment	80
UEPMNT426B	Maintain Electronic Instrumentation Equipment	80
UEPMNT427B	Diagnose and Repair Faults in Complex Instrumentation Equipment	80
UEPMNT428B	Modify Complex Instrumentation Equipment	80
UEPMNT429B	Modify Electronic Instrumentation Equipment	80



Unit Code	Unit Title	Nominal Hours
UEPMNT430B	Test and Commission Complex Instrumentation Equipment	80
UEPMNT431B	Test and Commission Electronic Instrumentation Equipment	80
UEPMNT432B	Write Programs for Control Systems	80
UEPMNT433B	Conduct Routine Generator Electrical Maintenance	80
UEPMNT434B	Diagnose and Repair Faults in Wind Turbine Control Systems	80
UEPMNT435B	Diagnose and Repair Faults in Wind Turbine Mechanical Systems	80
UEPMNT436B	Test and Commission Wind Turbine Control Systems	80
UEPMNT440A	Diagnose and repair faults in power plant inverter systems	80
UEPMNT441A	Test and commission power plant inverter systems	80
UEPMNT442A	Maintain wind turbine generator electrical systems	60
UEPMNT443A	Maintain wind turbine generator control systems	60
UEPMNT444A	Maintain wind turbine generator mechanical systems	60
UEPMNT445A	Diagnose and repair faults in large scale wind turbine generators	60
UEPMNT446A	Coordinate maintenance on a wind farm	60
UEPMNT447A	Diagnose and repair faults in wind turbine generator electrical systems	60
UEPMNT448A	Diagnose and repair faults in wind turbine generator control systems	60
UEPMNT449A	Diagnose and repair mechanical systems faults in wind turbine generators	60
UEPMNT450A	Test and commission wind turbine generators	60
UEPMNT501B	Diagnose and Repair Faults in Electrical and Electronic Systems	100
UEPMNT502B	Test and Commission Electronic Electrical Systems	100
UEPMNT503B	Diagnose and Repair Faults in Instrumentation Systems	100
UEPMNT504B	Test and Commission Instrumentation Systems	100
UEPOPL001A	Licence to operate a steam turbine	60
UEPOPL002A	Licence to operate a reciprocating steam engine	60
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS203B	Operate and Monitor Communications System	20
UEPOPS204B	Maintain and Utilise Records	20
UEPOPS205B	Conduct Minor Mechanical Maintenance	20
UEPOPS206B	Conduct Minor Electrical Maintenance	20
UEPOPS207B	Perform Plant Lubrication	20
UEPOPS209B	Perform Process Plant Inspections	20
UEPOPS210B	Conduct First Response within a Workplace Team	20
UEPOPS211B	Clean Plant and Equipment	20
UEPOPS232B	Transport plant and equipment	40
UEPOPS237B	Perform tool store duties	20
UEPOPS238B	Maintain battery banks and cells	20
UEPOPS240B	Operate and monitor fuel supply (coal)	40
UEPOPS241B	Operate and Monitor Ash and Dust Disposal Plant	20

Unit Code	Unit Title	Nominal Hours
UEPOPS242B	Operate and Monitor Dust Collection Plant	20
UEPOPS243B	Operate Air Conditioning Plant	20
UEPOPS244B	Operate and Monitor Site Services Water Systems	20
UEPOPS245B	Conduct Chemical Batching Operations	20
UEPOPS246B	Operate Waste and Contaminated Water Plant	20
UEPOPS247B	Operate and Monitor an Internal Combustion Single Fuel Reciprocating Engine	20
UEPOPS248B	Operate and Monitor an Internal Combustion Dual Fuel Reciprocating Engine	20
UEPOPS249B	Liaise with Stakeholders	20
UEPOPS251A	Conduct Routine Wind Turbine Maintenance	40
UEPOPS252A	Undertake Local Systems Operations	30
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS304B	Make and Spread a Stockpile	40
UEPOPS305B	Operate & Monitor Briquette Coal Cooling Plant	40
UEPOPS306B	Operate & Monitor Briquette Coal Drying Plant	40
UEPOPS307B	Operate & Monitor Briquette Coal Press Plant	40
UEPOPS308B	Perform Briquette Laboratory Tests	40
UEPOPS309B	Operate and Monitor Air Conditioning Equipment and Ventilation Systems	20
UEPOPS310B	Operate Bulk Coal Handling Plant	40
UEPOPS311B	Operate Fabric Filter Dust Collection Plant	20
UEPOPS312B	Operate and Monitor Fuel Supply	20
UEPOPS313B	Operate and Monitor Boiler Draught System	20
UEPOPS314B	Operate and Monitor Fuel Firing Plant (Gas or Oil)	20
UEPOPS315B	Operate and Monitor Fuel Firing Plant (Coal)	40
UEPOPS316B	Operate and Monitor Boiler Steam/Water Cycle	40
UEPOPS317B	Operate and Monitor Fixed Fire Protection Systems	20
UEPOPS318B	Operate and Monitor Compressed Gas Systems	20
UEPOPS319B	Operate and Monitor Gas Production Plant	20
UEPOPS320B	Operate and Monitor Compressed Air Systems	20
UEPOPS321B	Operate and Monitor Water Treatment Plant	40
UEPOPS322B	Operate and Monitor Alkalinity Reduction Plant	20
UEPOPS323B	Operate and Monitor Reverse Osmosis Plant	20
UEPOPS324B	Operate and Monitor Brine Concentrator Plant	20
UEPOPS325B	Operate and Monitor Water Quality Control Systems	40
UEPOPS326B	Operate and Monitor Oil Systems	40
UEPOPS327B	Monitor and Maintain Civil Assets	30
UEPOPS328B	Undertake Dam Safety Surveillance	30

Unit Code	Unit Title	Nominal Hours
UEPOPS329B	Operate and Monitor Auxiliary Steam Systems	30
UEPOPS330B	Operate and Monitor Heat Exchangers	30
UEPOPS331B	Operate and Monitor Water Systems (Condensate and Feedwater)	40
UEPOPS332B	Operate and Monitor Condensing and Cooling Water Systems	30
UEPOPS333B	Operate and Monitor H.R.S.G. Hot Gas Control System	40
UEPOPS334B	Operate and Monitor a Wind Generator	40
UEPOPS335B	Operate a Hydro Generator/Synchronous Condenser/Pump Unit	40
UEPOPS336B	Manage, Operate and Monitor a Gas Turbine Unit	30
UEPOPS337B	Maintain Quality Systems Within the Team	20
UEPOPS338B	Facilitate Effective Workplace Communication	20
UEPOPS339B	Operate and Monitor a Boiler Unit	30
UEPOPS340B	Operate and Monitor a Steam Turbine	30
UEPOPS342B	Interpret and Analyse Single Operation Protection Devices	30
UEPOPS343B	Operate Hydro-Electric Generating Plant and Auxiliary Equipment	30
UEPOPS344B	Conduct Water Conveyance and Control	30
UEPOPS345B	Implement Dam Safety Surveillance Procedures	30
UEPOPS346B	Conduct Non-Routine Operational Testing	20
UEPOPS347B	Operate and Monitor Supervisory, Control and Data Acquisition Systems	30
UEPOPS349B	Operate H.V. Primary Switchgear	40
UEPOPS351B	Operate H.V. Condition Changing Apparatus	20
UEPOPS352B	Conduct Operational Checks on In-service Mechanical Plant	20
UEPOPS354B	Operate and Monitor Dual Fuel Firing Plant	40
UEPOPS355B	Monitor the Implementation of Under Frequency Load Shedding	30
UEPOPS356B	Apply Environmental and Sustainable Energy Procedures	20
UEPOPS357B	Operate H.V. Secondary Switchgear	20
UEPOPS358A	Monitor and Maintain Wind Farm Civil Assets	40
UEPOPS359A	Monitor Climatic Conditions for Renewable Energy Production	40
UEPOPS360A	Operate and Monitor a Hydro Turbine	30
UEPOPS361A	Operate and Monitor Hydro Plant Auxiliary Systems	30
UEPOPS362A	Operate and Monitor Generator/Alternator	30
UEPOPS364A	Ensure Compliance with Occupational Health and Safety policy and procedures	20
UEPOPS368A	Operate manual systems	30
UEPOPS369A	Respond to a critical incident	40
UEPOPS370A	Facilitate the use of contingency plans	40
UEPOPS371A	Carry out operational checks on in-service electrical plant	20
UEPOPS402B	Conduct Multiple Energy Source Isolation Procedures for Permit to Work	40
UEPOPS403B	Coordinate Permit to Work System	40

Unit Code	Unit Title	Nominal Hours
UEPOPS404B	Coordinate First Response Team Operation	20
UEPOPS405B	Operate and Monitor AC Electrical Systems	30
UEPOPS406B	Operate and Monitor DC Electrical Systems	30
UEPOPS407B	Start and Run up a Gas Turbine	20
UEPOPS408B	Shut Down a Gas Turbine	20
UEPOPS409B	Start Up a Boiler Unit	40
UEPOPS410B	Shut Down a Boiler Unit	20
UEPOPS411B	Run Up a Steam Turbine	40
UEPOPS412B	Undertake Operations Commissioning/Decommissioning	40
UEPOPS413B	Co-ordinate Operational Strategies for Power Production	40
UEPOPS414B	Perform Risk Analysis of Generation Plant	30
UEPOPS416B	Monitor the Implementation of the Enterprise's Production/Maintenance Quality Control Procedures	40
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	40
UEPOPS419B	Shut down a steam turbine	30
UEPOPS420B	Coordinate the Network/System	60
UEPOPS422B	Schedule Generation	20
UEPOPS423B	Plan a Scheduled Outage	40
UEPOPS424B	Coordinate Local H.V. Networks	30
UEPOPS425B	Produce Maintenance Plans for Generation Production Plant	40
UEPOPS426B	Interpret and Analyse Multi-Operation Protection Devices	40
UEPOPS428B	Develop H.V. Switching Programs	20
UEPOPS430B	Control Permit to Work Operations	20
UEPOPS431B	Collect and Analyse Hydrological and Meteorological Data	40
UEPOPS432B	Start Up a Heat Recovery Steam Generator Unit	40
UEPOPS433B	Operate and Monitor a Heat Recovery Steam Generator Unit	40
UEPOPS434B	Shut Down a Heat Recovery Steam Generator Unit	20
UEPOPS435B	Operate and Monitor Flue Gas Nox Mitigation Systems	40
UEPOPS437B	Manage System Re-start	40
UEPOPS439B	Plan and Organise Work	20
UEPOPS440B	Co-ordinate Team Activities	20
UEPOPS441B	Operate and Monitor System Equipment	30
UEPOPS442B	Monitor and Coordinate the Operation of a Combined Cycle Gas Turbine Unit	60
UEPOPS443A	Coordinate Wind Farm Operations	60
UEPOPS444A	Start and Run-up a Hydro Turbine	40
UEPOPS445A	Shut Down a Hydro Turbine	30
UEPOPS446A	Operate and monitor hydro unit control and protection systems	60
UEPOPS447A	Coordinate photovoltaic solar power plant operations	60
UEPOPS450A	Coordinate effective workplace communication	40

Unit Code	Unit Title	Nominal Hours
UEPOPS451A	Coordinate the use of contingency plans	40
UEPOPS452A	Conduct operational checks and carry out corrective action on in-service electrical plant	40
UEPOPS454A	Coordinate response to critical incidents	30
UEPOPS456A	Perform switching to a switching program	30
UEPOPS457A	Control electrical energy production	40
UEPOPS501B	Manage Occupational Health and Safety Policy and Procedures	40
UEPOPS502B	Manage Permit to Work System	40
UEPOPS505B	Produce Maintenance Strategies for Generation Production Plant	40
UEPOPS507B	Conduct Project Management	80
UEPOPS508B	Manage Commissioning/Decommissioning	80
UEPOPS509B	Manage Quality Control Procedures	60
UEPOPS510B	Monitor Power Generation Plant Reliability	80
UEPOPS511B	Tune Process Plant and Equipment	60
UEPOPS512B	Manage the Network/System	80
UEPOPS513B	Manage Operational Crisis to Maintain/Restore Power System Integrity	60
UEPOPS514B	Control Hydro Generation/Pumping	60
UEPOPS515B	Co-ordinate Power Generation	40
UEPOPS520A	Evaluate cost estimations and initiate appropriate solutions	40
UEPOPS523A	Manage critical incidents	60
UEPOPS524A	Evaluate the scheduling of generation	60
UEPOPS525A	Coordinate and direct switching program	60
UEPOPS526A	Coordinate electrical energy production	60
UEPOPS527A	Manage first response team	40
UEPOPS528A	Manage environmental management systems	40
UEPOPS529A	Manage operational strategies for power production	80

## SAMPLE TRAINING PROGRAMS

A range of Sample Training Plans have been provided to demonstrate the flexibility of qualifications contained in the **UEP12 Electricity Supply Industry – Generation Sector Training Package**, but are by no means mandatory.

<b>Occupation / Work Function</b>	Plant attendant	
<b>Qualification Title</b>	Certificate II in ESI Generation (Operations Support)	
<b>Qualification Code</b>	UEP20112	
<b>Description</b>	Appropriate for a person operating local non-critical plant systems and lubrication of plant, undertaking minor maintenance of both electrical and mechanical equipment, plant cleaning, and the operation of mobile load shifting plant and equipment, while ensuring observation of safe working practices and environmental procedures.	
<b>Notes</b>	For advice on how to choose electives others than those listed below, please refer to the <b>UEP12 ESI Generation Sector Training Package</b> and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880.	
<b>Unit Code</b>	<b>Unit Title</b>	<b>Hours</b>
<b>Core</b>		
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS204B	Maintain and Utilise Records	20
UEPOPS209B	Perform Process Plant Inspections	20
UEPOPS252A	Undertake Local Systems Operations	30
UEPOPS356B	Apply Environmental and Sustainable Energy Procedures	20
<b>Group A Electives</b>		
CPCCLHS3002A	Licence to operate a materials hoist	24
CPCCLSF2001A	Licence to erect, alter and dismantle scaffolding basic level	40
<b>Group B Electives</b>		
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEPOPS207B	Perform Plant Lubrication	20
UEPOPS211B	Clean Plant and Equipment	20
UEPOPS237B	Perform tool store duties	20
UEPOPS240B	Operate and monitor fuel supply (coal)	40
UEPOPS232B	Transport plant and equipment	40
	<b>Total hours</b>	<b>374</b>

<b>Occupation / Work Function</b>	Assistant Unit Controller	
<b>Qualification Title</b>	Certificate III in ESI Generation (Systems Operations)	
<b>Qualification Code</b>	UEP30112	
<b>Description</b>	Appropriate for a person operating local plant systems, isolation of plant systems for work, operation of plant systems, observation of safe working practices and environmental procedures.	
<b>Notes</b>	For advice on how to choose electives others than those listed below, please refer to the <b>UEP12 ESI Generation Sector Training Package</b> and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880.	
<b>Unit Code</b>	<b>Unit Title</b>	<b>Hours</b>
<b>Core</b>		
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS204B	Maintain and Utilise Records	20
UEPOPS209B	Perform Process Plant Inspections	20
UEPOPS249B	Liaise with Stakeholders	20
UEPOPS252A	Undertake Local Systems Operations	30
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS317B	Operate and Monitor Fixed Fire Protection Systems	20
UEPOPS342B	Interpret and Analyse Single Operation Protection Devices	30
UEPOPS347B	Operate and Monitor Supervisory, Control and Data Acquisition Systems	30
UEPOPS356B	Apply Environmental and Sustainable Energy Procedures	20
UEPOPS364A	Ensure Compliance with Occupational Health and Safety policy and procedures	20
<b>Group A Electives</b>		
CPCCLSF3001A	Licence to erect, alter and dismantle scaffolding intermediate level	40
NWP319A	Monitor and Control Dam Operations	50
RIIMPO318B	Conduct civil construction skid steer loader operations	80
<b>Group B Electives</b>		
UEPOPS308B	Perform Briquette Laboratory Tests	40
UEPOPS310B	Operate Bulk Coal Handling Plant	40
UEPOPS315B	Operate and Monitor Fuel Firing Plant (Coal)	40
UEPOPS316B	Operate and Monitor Boiler Steam/Water Cycle	40
UEPOPS321B	Operate and Monitor Water Treatment Plant	40
UEPOPS325B	Operate and Monitor Water Quality Control Systems	40
UEPOPS326B	Operate and Monitor Oil Systems	40
UEPOPS327B	Monitor and Maintain Civil Assets	30
UEPOPS328B	Undertake Dam Safety Surveillance	30
UEPOPS331B	Operate and Monitor Water Systems (Condensate and Feedwater)	40
UEPOPS333B	Operate and Monitor H.R.S.G. Hot Gas Control System	40
UEPOPS337B	Maintain Quality Systems Within the Team	20
UEPOPS345B	Implement Dam Safety Surveillance Procedures	30
UEPOPS368A	Operate manual systems	30
	<b>Total hours</b>	<b>960</b>

<b>Occupation / Work Function</b>	Assistant Unit Controller	
<b>Qualification Title</b>	Certificate III in ESI Generation (Operations)	
<b>Qualification Code</b>	UEP30212	
<b>Description</b>	Appropriate for a person operating local plant systems, isolation of plant systems for work, operation of plant systems, observation of safe working practices and environmental procedures.	
<b>Notes</b>	For advice on how to choose electives others than those listed below, please refer to the <b>UEP12 ESI Generation Sector Training Package</b> and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880.	
<b>Unit Code</b>	<b>Unit Title</b>	<b>Hours</b>
<b>Core</b>		
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS204B	Maintain and Utilise Records	20
UEPOPS209B	Perform Process Plant Inspections	20
UEPOPS249B	Liaise with Stakeholders	20
UEPOPS252A	Undertake Local Systems Operations	30
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS352B	Conduct Operational Checks on In-service Mechanical Plant	20
UEPOPS356B	Apply Environmental and Sustainable Energy Procedures	20
UEPOPS364A	Ensure Compliance with Occupational Health and Safety policy and procedures	20
UEPOPS369A	Respond to a critical incident	40
UEPOPS371A	Carry out operational checks on in-service electrical plant	20
<b>Group A Electives</b>		
CPCCLHS3001A	Licence to operate a personnel and materials hoist	32
CPCCLHS3002A	Licence to operate a materials hoist	24
RIIMPO304B	Conduct wheel loader operations	40
RIIMPO318B	Conduct civil construction skid steer loader operations	80
<b>Group B Electives</b>		
UEPOPS305B	Operate & Monitor Briquette Coal Cooling Plant	40
UEPOPS306B	Operate & Monitor Briquette Coal Drying Plant	40
UEPOPS307B	Operate & Monitor Briquette Coal Press Plant	40
UEPOPS308B	Perform Briquette Laboratory Tests	40
UEPOPS309B	Operate and Monitor Air Conditioning Equipment and Ventilation Systems	20
UEPOPS316B	Operate and Monitor Boiler Steam/Water Cycle	40
UEPOPS321B	Operate and Monitor Water Treatment Plant	40
UEPOPS325B	Operate and Monitor Water Quality Control Systems	40
UEPOPS326B	Operate and Monitor Oil Systems	40
UEPOPS328B	Undertake Dam Safety Surveillance	30
UEPOPS331B	Operate and Monitor Water Systems (Condensate and Feedwater)	40
UEPOPS349B	Operate H.V. Primary Switchgear	40
UEPOPS358A	Monitor and Maintain Wind Farm Civil Assets	40
	<b>Total hours</b>	<b>956</b>



<b>Occupation / Work Function</b>	Unit Controller	
<b>Qualification Title</b>	Certificate IV in ESI Generation (Operations)	
<b>Qualification Code</b>	UEP40212	
<b>Description</b>	Appropriate for a person operating equipment and isolation of plant and equipment for work, with responsibility for the coordination of work activities, observation of safe working practices and environmental procedures. Supervision of others and coordination of work activities of individuals and/or teams	
<b>Notes</b>	For advice on how to choose electives others than those listed below, please refer to the <b>UEP12 ESI Generation Sector Training Package</b> and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880.	
<b>Unit Code</b>	<b>Unit Title</b>	<b>Hours</b>
<b>Core</b>		
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS252A	Undertake Local Systems Operations	30
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS337B	Maintain Quality Systems Within the Team	20
UEPOPS342B	Interpret and Analyse Single Operation Protection Devices	30
UEPOPS347B	Operate and Monitor Supervisory, Control and Data Acquisition Systems	30
UEPOPS402B	Conduct Multiple Energy Source Isolation Procedures for Permit to Work	40
UEPOPS403B	Coordinate Permit to Work System	40
UEPOPS405B	Operate and Monitor AC Electrical Systems	30
UEPOPS406B	Operate and Monitor DC Electrical Systems	30
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	40
UEPOPS426B	Interpret and Analyse Multi-Operation Protection Devices	40
UEPOPS439B	Plan and Organise Work	20
UEPOPS440B	Co-ordinate Team Activities	20
UEPOPS454A	Coordinate response to critical incidents	30
<b>Group A Electives</b>		
BSBLED401A	Develop teams and individuals	40
BSBMGT402A	Implement operational plan	40
BSBMGT403A	Implement continuous improvement	40
BSBWOR401A	Establish effective workplace relationships	50
BSBWOR402A	Promote team effectiveness	50
<b>Group B Electives</b>		
UEPOPS304B	Make and Spread a Stockpile	40
UEPOPS305B	Operate & Monitor Briquette Coal Cooling Plant	40
UEPOPS306B	Operate & Monitor Briquette Coal Drying Plant	40
UEPOPS307B	Operate & Monitor Briquette Coal Press Plant	40
UEPOPS308B	Perform Briquette Laboratory Tests	40
UEPOPS310B	Operate Bulk Coal Handling Plant	40
UEPOPS321B	Operate and Monitor Water Treatment Plant	40
UEPOPS325B	Operate and Monitor Water Quality Control Systems	40
UEPOPS326B	Operate and Monitor Oil Systems	40
UEPOPS344B	Conduct Water Conveyance and Control	30
<b>Group C Electives</b>		
UEPOPS404B	Coordinate First Response Team Operation	20
UEPOPS412B	Undertake Operations Commissioning/Decommissioning	40
UEPOPS413B	Co-ordinate Operational Strategies for Power Production	40
UEPOPS414B	Perform Risk Analysis of Generation Plant	30
UEPOPS416B	Monitor the Implementation of the Enterprise's Production/Maintenance Quality Control Procedures	40
UEPOPS420B	Coordinate the Network/System	60
	<b>Total hours</b>	<b>1340</b>

<b>Occupation / Work Function</b>	Unit Controller Supervisor	
<b>Qualification Title</b>	Diploma in ESI Generation (Systems Operations)	
<b>Qualification Code</b>	UEP50112	
<b>Description</b>	Appropriate for a person operating remote network systems and isolation of plant systems for work; with responsibility for the development of operational procedures and systems; managing the start up and shut down of boilers and turbines, hydro plant and gas turbines; while ensuring the implementation of safe working practices and environmental procedures. Management and supervision of others and coordination of work activities of individuals and/or teams.	
<b>Notes</b>	For advice on how to choose electives others than those listed below, please refer to the <b>UEP12 ESI Generation Sector Training Package</b> and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880.	
<b>Unit Code</b>	<b>Unit Title</b>	<b>Hours</b>
<b>Core</b>		
UEENEEE117A	Implement and monitor energy sector OHS policies and procedures	20
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEPOPS202B	Apply Quality Systems to Work	20
UEPOPS337B	Maintain Quality Systems Within the Team	20
UEPOPS369A	Respond to a critical incident	40
UEPOPS370A	Facilitate the use of contingency plans	40
UEPOPS417B	Monitor and Implement Environmental Plans and Procedures	40
UEPOPS420B	Coordinate the Network/System	60
UEPOPS426B	Interpret and Analyse Multi-Operation Protection Devices	40
UEPOPS428B	Develop H.V. Switching Programs	20
UEPOPS440B	Co-ordinate Team Activities	20
UEPOPS441B	Operate and Monitor System Equipment	30
UEPOPS454A	Coordinate response to critical incidents	30
UEPOPS456A	Perform switching to a switching program	30
UEPOPS501B	Manage Occupational Health and Safety Policy and Procedures	40
UEPOPS512B	Manage the Network/System	80
UEPOPS513B	Manage Operational Crisis to Maintain/Restore Power System Integrity	60
UEPOPS515B	Co-ordinate Power Generation	40
<b>Group A Electives</b>		
BSBCUS501C	Manage quality customer service	40
BSBINM501A	Manage an information or knowledge management system	50
BSBINN502A	Build and sustain an innovative work environment	50
BSBMGT502B	Manage people performance	70
<b>Group B Electives</b>		
UEPOPS301B	Conduct Single Energy Source Isolation Procedures for Permit to Work	40
UEPOPS304B	Make and Spread a Stockpile	40
UEPOPS305B	Operate & Monitor Briquette Coal Cooling Plant	40
UEPOPS306B	Operate & Monitor Briquette Coal Drying Plant	40
UEPOPS307B	Operate & Monitor Briquette Coal Press Plant	40
UEPOPS321B	Operate and Monitor Water Treatment Plant	40
UEPOPS325B	Operate and Monitor Water Quality Control Systems	40
UEPOPS326B	Operate and Monitor Oil Systems	40
UEPOPS327B	Monitor and Maintain Civil Assets	30
UEPOPS328B	Undertake Dam Safety Surveillance	30
<b>Group C Electives</b>		
UEPOPS423B	Plan a Scheduled Outage	40
UEPOPS425B	Produce Maintenance Plans for Generation Production Plant	40
UEPOPS432B	Start Up a Heat Recovery Steam Generator Unit	40
UEPOPS433B	Operate and Monitor a Heat Recovery Steam Generator Unit	40

<b>Unit Code</b>	<b>Unit Title (cont)</b>	<b>Hours</b>
<b>Group D Electives</b>		
UEPOPS502B	Manage Permit to Work System	40
UEPOPS507B	Conduct Project Management	80
UEPOPS509B	Manage Quality Control Procedures	60
UEPOPS510B	Monitor Power Generation Plant Reliability	80
UEPOPS520A	Evaluate cost estimations and initiate appropriate solutions	40
UEPOPS523A	Manage critical incidents	60
	<b>Total hours</b>	<b>1760</b>

## CONTACTS AND LINKS

<b>Industry Skills Council (ISC)</b>		
EE-Oz Training Standards	This ISC is responsible for developing this <b>UEP12 ESI - Generation Sector Training Package</b> and can be contacted for further information. You can also source copies of the Training Package and support material.	Ground Floor 68 Campbell Street, Surry Hills, NSW, 2010  Phone: (02) 9280 2566  Fax: (02) 9280 1600  Email: <a href="mailto:ee-oz@ee-oz.com.au">ee-oz@ee-oz.com.au</a>  Web: <a href="http://www.eeqsba.com.au">http://www.eeqsba.com.au</a>
<b>National Register for VET in Australia</b>		
Training.gov.au (TGA)	TGA is the Australian governments' official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs.	<a href="http://www.training.gov.au">http://www.training.gov.au</a>
<b>Australian Government</b>		
The Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE)	DIISRTE provides a range of services and resources to assist in delivery of Training Packages. Search the DIISRTE website for links to a range of relevant resources and publications.	<a href="http://www.innovation.gov.au">http://www.innovation.gov.au</a>  You may also find Department of Education Employment and Workplace Relations website of use.  <a href="http://www.deewr.gov.au">http://www.deewr.gov.au</a>
<b>State Government</b>		
Department of Education and Early Childhood Development Higher Education and Skills Group	Higher Education and Skills Group is responsible for funding and the implementation of Vocational Education and Training (VET) in Victoria, including Apprenticeships and Traineeships.	General information:  <a href="http://www.skills.vic.gov.au">www.skills.vic.gov.au</a>  Approved Training Schemes:  <a href="http://www.skills.vic.gov.au/corporate/publications/brochures-and-fact-sheets/apprenticeships-and-traineeships-in-victoria-industry-guides">http://www.skills.vic.gov.au/corporate/publications/brochures-and-fact-sheets/apprenticeships-and-traineeships-in-victoria-industry-guides</a>
<b>Curriculum Maintenance Manager (CMM)</b>		
Engineering Industries	The CMM service is provided by Executive Officers located within Victorian TAFE institutes on behalf of Skills Victoria.	George Adda Box Hill Institute of TAFE, Private Bag 2014, Box Hill, Victoria, 3128  Phone: (03) 9286 9880  Fax: (03) 9286 9800  Email: <a href="mailto:g.adda@bhtafe.edu.au">g.adda@bhtafe.edu.au</a>  Web:  <a href="http://trainingsupport.skills.vic.gov.au/cmminf.cfm">http://trainingsupport.skills.vic.gov.au/cmminf.cfm</a>

<b>State VET Regulatory Authority</b>		
Victorian Registration and Qualifications Authority (VRQA)	The VRQA is a statutory authority responsible for the registration of education and training providers in Victoria to ensure the delivery of quality education and training.	<a href="http://www.vrqa.vic.gov.au">www.vrqa.vic.gov.au</a> Phone: 03 9637 2806
<b>National VET Regulatory Authority</b>		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector vocational education and training sector.  ASQA regulates courses and training providers to ensure nationally approved quality standards are met.	<a href="http://www.asqa.gov.au">www.asqa.gov.au</a> Info line: 1300 701 801
<b>Industry Regulatory Body</b>		
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.	Level 3, 4 Riverside Quay Southbank  Phone: (03) 9203 9700  Fax: (03) 9686 2197  Email: <a href="mailto:info@esv.vic.gov.au">info@esv.vic.gov.au</a>  Web: <a href="http://www.esv.vic.gov.au/">http://www.esv.vic.gov.au/</a>
<b>WorkSafe</b>		
WorkSafe Victoria	WorkSafe needs to provide written verification before High Risk Work Units can be added to an RTO's scope of registration.	<a href="http://www.worksafe.vic.gov.au">www.worksafe.vic.gov.au</a> Info line: 1800 136 089

## GLOSSARY

<b>Code</b>	Nationally endorsed Training Package qualification code.
<b>Title</b>	Nationally endorsed Training Package qualification title.
<b>Unit Code</b>	Nationally endorsed Training Package unit code.
<b>Unit Title</b>	Nationally endorsed Training Package unit title.
<b>Nominal Hours</b>	The anticipated hours of supervised learning or training deemed necessary to conduct training and assessment activities associated with the program of study. These hours are determined by the Victorian State Training Authority. Nominal hours may vary for a qualification depending on the units of competency selected.
<b>Scope of Registration</b>	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.