**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

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| --- | --- | --- |
| Training Package Version  | Date VPGApproved | Comments |
| UEP12 Electricity Supply Industry – Generation Sector Training Package 2 | 16 May 2013 | * 1 new qualification
	+ - UEP40612- Certificate IV in Large Scale Wind Generation - Electrical
* 14 new units of competency
* 23 new imported units of competency
 |
| UEP12 Electricity Supply Industry – Generation Sector Training Package 1  | 22 November 2012 | * Initial Release
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**Training Package Victorian Purchasing Guide**

**CONTENTS**

INTRODUCTION 5

What is a Victorian Purchasing Guide? 5

Registration 5

QUALIFICATIONS 6

UNITS OF COMPETENCY AND NOMINAL HOURS 7

SAMPLE TRAINING PROGRAMS 14

CONTACTS AND LINKS 20

GLOSSARY 22

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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 Meteorelogical 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 |
| 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.

|  |  |
| --- | --- |
| **Occupation / Work Function** | Plant attendant  |
| **Qualification Title**  | Certificate II in ESI Generation (Operations Support)  |
| **Qualification Code** | UEP20112  |
| **Description** | 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.  |
| **Notes** | For advice on how to choose electives others than those listed below, please refer to the **UEP12 ESI Generation Sector Training Package** and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880. |
| **Unit Code** | **Unit Title** | **Hours** |
| **Core** |   |   |
| 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 |
| **Group A Electives** |   |   |
| CPCCLHS3002A | Licence to operate a materials hoist  | 24 |
| CPCCLSF2001A | Licence to erect, alter and dismantle scaffolding basic level  | 40 |
| **Group B Electives** |   |   |
| 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 |
|   | **Total hours** | **374** |

|  |  |
| --- | --- |
| **Occupation / Work Function** | Assistant Unit Controller |
| **Qualification Title**  | Certificate III in ESI Generation (Systems Operations) |
| **Qualification Code** | UEP30112 |
| **Description** |  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. |
| **Notes** | For advice on how to choose electives others than those listed below, please refer to the **UEP12 ESI Generation Sector Training Package** and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880. |
| **Unit Code** | **Unit Title** | **Hours** |
| **Core** |   |   |
| 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 |
| **Group A Electives** |   |   |
| 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 |
| **Group B Electives** |   |   |
| 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 |
|   | **Total hours** | **960** |

|  |  |
| --- | --- |
| **Occupation / Work Function** | Assistant Unit Controller |
| **Qualification Title**  | Certificate III in ESI Generation (Operations) |
| **Qualification Code** | UEP30212 |
| **Description** | 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. |
| **Notes** | For advice on how to choose electives others than those listed below, please refer to the **UEP12 ESI Generation Sector Training Package** and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880. |
| **Unit Code** | **Unit Title** | **Hours** |
| **Core** |   |   |
| 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 |
| **Group A Electives** |   |   |
| 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 |
| **Group B Electives** |   |   |
| 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 |
|   | **Total hours** | **956** |

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| **Occupation / Work Function** | Unit Controller |
| **Qualification Title**  | Certificate IV in ESI Generation (Operations) |
| **Qualification Code** | UEP40212 |
| **Description** |  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 |
| **Notes** | For advice on how to choose electives others than those listed below, please refer to the **UEP12 ESI Generation Sector Training Package** and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880. |
| **Unit Code** | **Unit Title** | **Hours** |
| **Core** |   |   |
| 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 |
| **Group A Electives** |   |   |
| 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 |
| **Group B Electives** |   |   |
| 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 |
| **Group C Electives** |   |   |
| 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 |
|   | **Total hours** | **1340** |

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| **Occupation / Work Function** | Unit Controller Supervisor |
| **Qualification Title**  | Diploma in ESI Generation (Systems Operations) |
| **Qualification Code** | UEP50112 |
| **Description** |  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. |
| **Notes** | For advice on how to choose electives others than those listed below, please refer to the **UEP12 ESI Generation Sector Training Package** and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880. |
| **Unit Code** | **Unit Title** | **Hours** |
| **Core** |   |   |
| 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 |
| **Group A Electives** |   |   |
| 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 |
| **Group B Electives** |   |   |
| 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 |
| **Group C Electives** |   |   |
| 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 |

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| **Unit Code** | **Unit Title (cont)** | **Hours** |
| **Group D Electives** |   |   |
| 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 |
|   | **Total hours** | **1760** |

CONTACTS AND LINKS

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| **Industry Skills Council (ISC)** |
| EE-Oz Training Standards  | This ISC is responsible for developing this **UEP12 ESI - Generation Sector Training Package** 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: ee-oz@ee-oz.com.au Web: <http://www.eeqsba.com.au>  |
| **National Register for VET in Australia** |
| Training.gov.au (TGA) | TGA is the Australian governments’ official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs. | <http://www.training.gov.au> |
| **Australian Government** |
| 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. | <http://www.innovation.gov.au>You may also find Department of Education Employment and Workplace Relations website of use.<http://www.deewr.gov.au> |
| **State Government** |
| 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: [www.skills.vic.gov.au](http://www.skills.vic.gov.au) Approved Training Schemes: <http://www.skills.vic.gov.au/corporate/publications/brochures-and-fact-sheets/apprenticeships-and-traineeships-in-victoria-industry-guides>  |
| **Curriculum Maintenance Manager (CMM)** |
| Engineering Industries | The CMM service is provided by Executive Officers located within Victorian TAFE institutes on behalf of Skills Victoria. | George AddaBox Hill Institute of TAFE, Private Bag 2014, Box Hill,Victoria, 3128Phone: (03) 9286 9880Fax: (03) 9286 9800Email: g.adda@bhtafe.edu.auWeb:<http://trainingsupport.skills.vic.gov.au/cmminf.cfm>  |
| **State VET Regulatory Authority** |
| 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. | [www.vrqa.vic.gov.au](http://www.vrqa.vic.gov.au)Phone: 03 9637 2806 |
| **National VET Regulatory Authority** |
| 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. | [www.asqa.gov.au](http://www.asqa.gov.au)Info line: 1300 701 801 |
| **Industry Regulatory Body** |
| 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: info@esv.vic.gov.au Web: <http://www.esv.vic.gov.au/>  |
| **WorkSafe**  |
| WorkSafe Victoria | WorkSafe needs to provide written verification before High Risk Work Units can be added to an RTO’s scope of registration. | [www.worksafe.vic.gov.au](http://www.worksafe.vic.gov.au) Info line: 1800 136 089 |

GLOSSARY

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| **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. |
| **Nominal Hours** | 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.  |
| **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. |