

Victorian Purchasing Guide
for
UET12 Electricity Supply Industry-Transmission, Distribution and Rail
Sector Training Package
Version 2

April 2013





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Victorian Purchasing Guide — Version History

Training Package Version	Date VPG Approved	Comments
UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package 2	17 th April 2013	<ul style="list-style-type: none">• 2 new qualifications<ul style="list-style-type: none">o UET50312 Diploma of ESI — Power Systems Operationso UET60312 Advanced Diploma of ESI — Power Systems Operations
UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package 1	22 nd November 2012	<ul style="list-style-type: none">• Initial release

**UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector
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	
		Min	Max
UET20312	Certificate II in ESI – Powerline Vegetation Control	355	400
UET20412	Certificate II in Transmission Structure and Line Assembly	369	398
UET20511	Certificate II in National Broadband Network Cabling (Electricity Supply Industry Assets)	360	360
UET20612	Certificate II in ESI – Asset Inspection	350	360
UET30512	Certificate III in ESI – Power Systems - Transmission Overhead	1155	1230
UET30612	Certificate III in ESI – Power Systems - Distribution Overhead	1175	1190
UET30712	Certificate III in ESI – Power Systems - Rail Traction	1150	1210
UET30812	Certificate III in ESI – Power Systems - Distribution Cable Jointing	1135	1230
UET30912	Certificate III in ESI – Remote Community Utilities Worker	1090	1210
UET40412	Certificate IV in ESI – Network Systems	1435	1510
UET40512	Certificate IV in ESI – Power Systems Substations	1290	1330
UET40612	Certificate IV in ESI – Power Systems Network Infrastructure	1330	1400
UET50212	Diploma of ESI – Power Systems	1530	1580
UET50312	Diploma of ESI – Power Systems Operations	1610	1660
UET60212	Advanced Diploma of ESI – Power Systems	1920	2080
UET60312	Advanced Diploma of ESI – Power Systems Operations	1900	2010

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 **UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package 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 **UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package 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
UETTDRCJ21A	Lay ESI electrical cables	20
UETTDRCJ22A	Install and maintain de-energised low voltage underground paper insulated cables.	60
UETTDRCJ23A	Install and maintain de-energised high voltage underground paper insulated cables.	60
UETTDRCJ24A	Joint and maintain energised low voltage underground paper insulated cables	60
UETTDRCJ25A	Perform straight through high voltage paper insulated to polymeric transition joint	60
UETTDRCJ26A	Install and maintain de-energised low voltage underground polymeric cables.	60
UETTDRCJ27A	Install and maintain de-energised high voltage underground polymeric cables.	60
UETTDRCJ28A	Joint and maintain energised low voltage underground polymeric cables	60
UETTDRCJ29A	Install gas and oil filled specialised underground cables	60
UETTDRCJ30A	Maintain gas and oil filled specialised underground cables	60
UETTDRCJ31A	Install and maintain polymeric specialised underground cables	65
UETTDRCJ32A	Install and maintain gas and oil pressure systems for specialised underground cables	65
UETTDRCJ33A	Install and maintain network infrastructure LV underground cables	40
UETTDRCJ34A	Install and maintain network infrastructure HV underground cables	50
UETTDRCJ99A	Test and verify distribution cable jointing installations	40
UETTDNDP11A	Inspect overhead poles/structures and electrical apparatus	60
UETTDNDP12A	Maintain overhead energised low voltage conductors and cables	60
UETTDNDP13A	Maintain energised HV distribution overhead electrical apparatus (stick)	70
UETTDNDP14A	Maintain energised HV distribution overhead electrical apparatus (glove)	70
UETTDNDP15A	Inspect, maintain and restore energised low voltage overhead distribution network infrastructure	50
UETTDNDP99A	Test and verify distribution overhead installations	40
UETTDNDS31A	Draft and layout an power system overhead distribution extension	60
UETTDNDS32A	Draft and layout an power system underground distribution extension	60

Unit Code	Unit Title	Nominal Hours
UETTD RDS33A	Draft and layout a power system street lighting system	60
UETTD RDS34A	Draft and layout a power system distribution substation minor upgrade	60
UETTD RDS35A	Design overhead distribution power systems	90
UETTD RDS36A	Design underground distribution power systems	90
UETTD RDS37A	Design power system distribution substations	90
UETTD RDS38A	Design power system public lighting systems	90
UETTD RDS39A	Prepare and manage detailed construction plans for electrical power system infrastructure	90
UETTD RDS40A	Prepare and appraise power systems financial impact statements	130
UETTD RDS41A	Manage electrical power systems infrastructure projects	130
UETTD RDS42A	Investigate quality of power systems supply issues	90
UETTD RDS43A	Develop high voltage and low voltage distribution protection systems	100
UETTD RDS44A	Design power system zone substations modifications	105
UETTD RDS45A	Organise and implement ESI line and easement surveys	90
UETTD RDS46A	Develop planned power systems outage strategies	90
UETTD RDS47A	Review power system asset management strategies	120
UETTD RDS48A	Analyse and appraise power system fault and outage data	120
UETTD RDS49A	Establish and manage power system geographical information systems data	90
UETTD RDS50A	Design customer power system substations	100
UETTD RDS51A	Manage power system transmission and sub-transmission design process	120
UETTD RDS52A	Design power system transmission, sub-transmission and zone substation buildings	130
UETTD RDS53A	Design power system transmission and sub-transmission substation primary plant	140
UETTD RDS54A	Design power system transmission and sub-transmission protection and control	140
UETTD RDS55A	Design power system transmission and sub-transmission substation earthing	130
UETTD RDS56A	Design power system transmission, sub-transmission and zone substation – civil and structural components	130
UETTD RDS57A	Design power system overhead transmission systems	130
UETTD RDS58A	Design underground transmission systems	130
UETTD REL11A	Apply sustainable energy and environmental procedures	40
UETTD REL12A	Operate plant and equipment near live electrical conductors and apparatus	40
UETTD REL13A	Comply with sustainability, environmental and incidental response policies and procedures	40
UETTD REL14A	Working safely near live electrical apparatus as a non-electrical worker	40
UETTD REL15A	Respond to power systems technical enquiries and requests	60
UETTD REL16A	Working safely near live electrical apparatus	20

Unit Code	Unit Title	Nominal Hours
UETTDREL17A	Operate asset inspection machinery and equipment near live electrical apparatus	40
UETTDREL18A	Inspect and treat poles and inspect electrical apparatus	40
UETTDREL19A	Identify and interpret characteristics of electrical apparatus associated with power industry assets	40
UETTDREL20A	Undertake minor vegetation control and routine minor maintenance of poles and electrical apparatus	40
UETTDREL21A	Operate specialised data information equipment near live electrical apparatus	40
UETTDRLS32A	Solve electrical problems in remote community network apparatus	80
UETTDRLS33A	Solve electrical problems in remote community network systems	80
UETTDRLS34A	Install and replace energy meters and associated equipment in remote communities	50
UETTDRLS35A	Perform remote community network field switching to a given schedule	40
UETTDRLS36A	Install and maintain low voltage services in remote communities (overhead)	40
UETTDRLS37A	Install and maintain low voltage services in remote communities (underground)	40
UETTDRLS38A	Install and maintain public lighting systems in remote communities	40
UETTDRLS41A	Install network infrastructure electrical equipment	60
UETTDRLS42A	Maintain network infrastructure electrical equipment	60
UETTDRLS43A	Perform low voltage field switching operation to a given schedule.	40
UETTDRLS44A	Perform HV field switching operation to a given schedule	40
UETTDRLS45A	Install and maintain ESI overhead distribution network infrastructure	40
UETTDRLS46A	Install and maintain ESI network infrastructure electrical equipment	40
UETTDRLS47A	Sample, filter, test and reinstate insulating oil	20
UETTDRLS48A	Develop high voltage switching schedule	60
UETTDRLS49A	Develop low voltage switching schedule	60
UETTDRLS50A	Coordinate power system permit procedures	60
UETTDRLS51A	Coordinate and direct power system switching schedules	60
UETTDRLS52A	Install and maintain poles, structures and associated hardware	60
UETTDRLS53A	Install and maintain power system public lighting	40
UETTDRLS54A	Install and maintain poles, structures, overhead conductors and cables	60
UETTDRLS55A	Install and maintain low voltage underground services	40
UETTDRLS56A	Install and maintain low voltage overhead services	40
UETTDRLS57A	Conduct visual checking and treatment of power system poles and structures	25
UETTDRLS58A	Locate faults in power system underground power cables	65
UETTDRLS59A	Conduct high potential testing of power system underground power cables	60
UETTDRLS60A	Install and replace power system energy meters and associated equipment	60

Unit Code	Unit Title	Nominal Hours
UETTDNIS61A	Install mobile Generation set for synchronised LV Genset	60
UETTDNIS62A	Implement and monitor the power system organisational OHS policies, procedures and programs	60
UETTDNIS63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	60
UETTDNIS64A	Install mobile Generation set for synchronised HV Genset	40
UETTDNIS65A	Contribute to coordinated HV live working	50
UETTDNIS66A	Manage an electricity power system OHS management system	100
UETTDNIS67A	Solve problems in energy supply network equipment	80
UETTDNIS68A	Solve problems in energy supply network protection equipment and systems	40
UETTDNIS69A	Diagnose and rectify faults in energy supply apparatus	60
UETTDNIS70A	Diagnose and rectify faults in electrical energy distribution systems	60
UETTDNIS71A	Diagnose and rectify faults in electrical energy supply transmission systems	60
UETTDNIS72A	Diagnose and rectify faults in distributed Generation systems	60
UETTDNIS73A	Develop engineering solutions for energy supply power transformer problems	60
UETTDNIS74A	Develop engineering solutions for energy supply system protection problems	60
UETTDNIS81A	Install and maintain telecommunications infrastructure on electricity supply industry assets	80
UETTDNIS99A	Test and verify distribution remote area installations	40
UETTDRRF01B	Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus	0
UETTDRRF02B	Perform pole top rescue	0
UETTDRRF03B	Perform EWP rescue	0
UETTDRRF04B	Perform tower rescue	0
UETTDRRF05B	Perform rescue from switchyard structures at heights	0
UETTDRRF06B	Perform rescue from a live LV panel	0
UETTDRRF07B	Perform cable pit/trench/excavation rescue	0
UETTDRRF08B	Perform EWP controlled descent escape	0
UETTDRRF09B	Apply access procedures to work on or near electrical network infrastructure	0
UETTDRRF10B	Provide first aid in an ESI environment	0
UETTDRRF11A	Testing of connections to low voltage electricity networks	0
UETTDRR21A	Install traction overhead wiring systems	60
UETTDRR22A	Maintain traction overhead wiring systems	60
UETTDRR23A	Install rail traction bonds	40
UETTDRR24A	Maintain rail traction bonds	60
UETTDRR25A	Install overhead rail traction configurations	60
UETTDRR26A	Maintain overhead rail traction configurations	60

Unit Code	Unit Title	Nominal Hours
UETDRRT27A	Install overhead traction components and equipment	60
UETDRRT28A	Maintain overhead traction components and equipment	60
UETDRRT29A	Operate rail road traction height access equipment.	25
UETDRRT30A	Perform to a given schedule rail traction switching operations	40
UETDRRT31A	Maintain energised d.c. traction overhead wiring system	60
UETDRRT32A	Maintain energised traction overhead electrical apparatus using stick techniques	70
UETDRRT33A	Maintain energised traction overhead electrical apparatus using glove techniques	70
UETDRRT34A	Install and maintain traction network wiring systems	40
UETDRRT35A	Install and maintain traction network equipment and components	40
UETDRRT36A	Maintain traction network wiring systems	40
UETDRRT37A	Maintain traction network components and equipment	40
UETDRRT99A	Test and verify rail traction installations	40
UETDRSB21A	Diagnose and rectify faults in substation environment	20
UETDRSB22A	Carry out power systems substation inspection	20
UETDRSB23A	Install and maintain substation direct current systems	20
UETDRSB24A	Maintain high voltage power system circuit breakers	20
UETDRSB25A	Maintain high voltage power and instrument transformers	20
UETDRSB26A	Install high current DC equipment and switchgear	30
UETDRSB27A	Maintain high current DC equipment and switchgear	30
UETDRSB29A	Maintain capacitor bank equipment for voltage regulation	30
UETDRSB30A	Maintain high voltage power system static VAR compensators (SVC)	30
UETDRSB31A	Maintain high voltage power system synchronous condensers	30
UETDRSB32A	Maintain power transformer on load tap changers (OLTC)	30
UETDRSB33A	Install high voltage plant and equipment	30
UETDRSB34A	Carry out surveys using thermovision techniques	20
UETDRSB35A	Maintain discrete control and protection systems	30
UETDRSB36A	Commission discrete control and protection systems	30
UETDRSB37A	Maintain power system distribution field devices	30
UETDRSB38A	Commission power system distribution field devices	30
UETDRSB39A	Perform power system substation switching operation to a given schedule	40
UETDRSO32A	Manage power systems network faults	140
UETDRSO33A	Manage power systems critical events	140
UETDRSO34A	Control power systems generating plant	120
UETDRSO35A	Manage high voltage distribution and subtransmission network demand	140
UETDRSO36A	Develop low voltage distribution switching programs	100
UETDRSO37A	Develop high voltage distribution and subtransmission switching programs	100

Unit Code	Unit Title	Nominal Hours
UETDRSO38A	Develop and evaluate power systems transmission switching programs	100
UETDRSO39A	Coordinate low voltage distribution networks	100
UETDRSO40A	Coordinate high voltage distribution and subtransmission networks	100
UETDRSO41A	Manage power systems transmission networks	130
UETDRSO42A	Manage power systems transmission network demand	130
UETDRSO43A	Coordinate low voltage distribution network demand	100
UETDRSO44A	Develop crisis power systems management plans	100
UETDRSO45A	Operate and monitor system SCADA equipment	100
UETDRSO46A	Monitor and control the field staff activities	100
UETDRSO47A	Coordinate high voltage transmission network	100
UETDRSO48A	Respond to discrete and interdependent protection operations	100
UETDRSO49A	Coordinate power system operations in a regulated energy market	100
UETDRSO50A	Respond to complex power system protection operations	140
UETDRSO51A	Manage network systems power flows	140
UETTD RTP22A	Establish and reinstate a power systems transmission structure work site	90
UETTD RTP23A	Erect power systems transmission structures	100
UETTD RTP24A	Erect power systems transmission structure hardware	80
UETTD RTP25A	Pre-tension stringing overhead transmission conductors and cables	90
UETTD RTP26A	Install transmission structures and associated hardware	60
UETTD RTP27A	Maintain transmission structures and associated hardware	60
UETTD RTP28A	Set-up and install transmission structure stubs	50
UETTD RTP29A	Install and maintain transmission overhead conductors and cables	60
UETTD RTP30A	Inspect transmission overhead structures and electrical apparatus	60
UETTD RTP31A	Maintain energised transmission lines using live line stick technique	70
UETTD RTP32A	Maintain energised transmission lines using Barehand Technique	70
UETTD RTP33A	Maintain energised transmission lines using Barehand Technique on a helicopter platform	60
UETTD RTP34A	Install/maintain overhead transmission network infrastructure	40
UETTD RTP35A	Install/maintain transmission network infrastructure electrical equipment	40
UETTD RTP99A	Test and verify transmission overhead installations	40
UETD RTS21A	Maintain interdependent network protection and control systems	100
UETD RTS22A	Commission interdependent network protection and control systems	100
UETD RTS23A	Conduct evaluation of power system substation faults	120
UETD RTS24A	Design testing and commissioning procedures for field devices and substations	120
UETD RTS25A	Maintain and test and metering schemes	90
UETD RTS26A	Commission power systems metering schemes	100
UETD RTS27A	Perform accuracy checks on power systems instrument transformers	100
UETD RTS28A	Repair, test and calibrate protection relays and meters	100

Unit Code	Unit Title	Nominal Hours
UETTDRTS29A	Develop power systems secondary isolation instructional documents	100
UETTDRTS30A	Design power systems secondary isolation instructional documents	130
UETTDRTS31A	Maintain, test and commission power systems voltage regulating equipment	80
UETTDRTS32A	Conduct evaluation of power systems primary plant	130
UETTDRTS33A	Undertake power systems project management of substation augmentation and maintenance	140
UETTDRTS34A	Install and maintain power system communication equipment	100
UETTDRTS35A	Maintain complex network protection and control systems	140
UETTDRTS36A	Commission complex network protection and control systems	140
UETTDRTS37A	Perform current injection testing using phantom load	40
UETTDRTS38A	Install and replace high voltage metering and associated equipment	40
UETTDRTS39A	Maintain compliance with national electricity market metrology practices and procedures	30
UETTDRTS40A	Test and maintain energy revenue metering schemes	30
UETTDRTS41A	Install and replace complex energy revenue metering schemes and associated equipment	30
UETTDRTS42A	Install and replace complex energy revenue metering schemes and associated equipment	30
UETTDRTS43A	Commission energy revenue metering schemes	30
UETTDRTS44A	Test and maintain energy revenue metering schemes (complex)	40
UETTDRTS45A	Manage compliance with national electricity market metrology practices and procedures	40
UETTDRTS46A	Verification and certification of revenue metering energy measurement instruments	40
UETTDRTS47A	Commission energy revenue metering schemes (complex)	40
UETTDTRVC21A	Use climbing techniques to cut vegetation above ground near live electrical apparatus	50
UETTDTRVC23A	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	50
UETTDTRVC24A	Assess vegetation and recommend control measures in an ESI environment	50
UETTDTRVC25A	Use elevated platform to cut vegetation above ground level near live electrical apparatus	45
UETTDTRVC26A	Cut vegetation at ground level near live electrical apparatus	45
UETTDTRVC27A	Monitor safety compliance of vegetation control work in an ESI environment	50
UETTDTRVC29A	Control vegetation whilst performing linework	40
UETTDTRVC30A	Coordinate vegetation control operations	60
UETTDTRVC31A	Operate specialist equipment at ground level near live electrical apparatus	60
UETTDTRVC32A	Use specialised plant to cut vegetation above ground level near live electrical apparatus	30

Unit Code	Unit Title	Nominal Hours
UETDRVC33A	Apply pruning techniques to vegetation control near live electrical apparatus	50
UETDRVC34A	Undertake release and rescue from a tree near live electrical apparatus	20

SAMPLE TRAINING PROGRAMS

A range of Sample Training Plans have been provided to demonstrate the flexibility of qualifications contained in the **UET12 Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package Training Package**, but are by no means mandatory.

Occupation / Work Function	Line worker assistant	
Qualification Title	Certificate II in ESI – Powerline Vegetation Control	
Qualification Code	UET20312	
Description	Appropriate for a person working on installation and maintenance of the electricity transmission network. This includes erection of transmission towers, working with hardware used on towers and the pre-tension stringing of conductors.	
Notes	For advice on how to choose electives others than those listed below, please refer to the UET12 ESI Transmission, Distribution and Rail 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
UETTDREL13A	Comply with sustainability, environmental and incidental response policies and procedures	40
UETTDREL14A	Working safely near live electrical apparatus as a non-electrical worker	40
AHCARB205A	Operate and maintain chainsaws	40
UETTDRVC23A	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	50
UETTDRVC27A	Monitor safety compliance of vegetation control work in an ESI environment	50
Electives		
AHCMOM304A	Operate machinery and equipment	40
AHCARB204A	Undertake standard climbing techniques	40
UETTDRVC21A	Use climbing techniques to cut vegetation above ground near live electrical apparatus	50
UETTDRVC32A	Use specialised plant to cut vegetation above ground level near live electrical apparatus	30
	Total Hours	400

Occupation / Work Function	Line worker	
Qualification Title	Certificate III in ESI — Power Systems - Transmission Overhead	
Qualification Code	UET30512	
Description	Appropriate for people working as a line worker in the electricity supply industry.	
Notes	For advice on how to choose electives others than those listed below, please refer to the UET12 ESI Transmission, Distribution and Rail Sector Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880	
Unit Code	Unit Title	Hours
Core		
CPCCLDG3001A	Licence to perform dogging	80
CPCCLRG3001A	Licence to perform rigging basic level	196
TLILIC2005A	License to Operate a Boom Type Elevating Work Platform (Boom Length 11 Metres or more)	30
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE105A	Fix and secure electrotechnolgy equipment	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UETTDREL11A	Apply sustainable energy and environmental procedures	40
UETTDREL12A	Operate plant and equipment near live electrical conductors and apparatus	40
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDNIS54A	Install and maintain poles, structures, overhead conductors and cables	60
UETTDRT26A	Install transmission structures and associated hardware	60
UETTDRT27A	Maintain transmission structures and associated hardware	60
UETTDRT29A	Install and maintain transmission overhead conductors and cables	60
UETTDRT30A	Inspect transmission overhead structures and electrical apparatus	60
UETTDRT99A	Test and verify transmission overhead installations	40
Electives		
CPCCLHS3001A	Licence to operate a personnel and materials hoist	32
CPCCLHS3002A	Licence to operate a materials hoist	24
TLIC3003A	Drive medium rigid vehicle	40
UETTDSD12A	Maintain overhead energised low voltage conductors and cables	60
UETTDNIS41A	Install network infrastructure electrical equipment	60
UETTDNIS42A	Maintain network infrastructure electrical equipment	60
	Total Hours	1362

Occupation / Work Function	Power Systems - Draftsperson	
Qualification Title	Certificate IV in ESI — Network Systems	
Qualification Code	UET40412	
Description	Appropriate for people working as post trade line workers, performing work associated with installation and maintenance of transmission, distribution, rail and/or cable jointing overhead and/or underground lines and cables which may be live.	
Notes	For advice on how to choose electives others than those listed below, please refer to the UET012 ESI Transmission, Distribution and Rail Sector Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880	
Unit Code	Unit Title	Hours
Core		
CPCCLDG3001A	Licence to perform dogging	80
TLILIC2005A	License to Operate a Boom Type Elevating Work Platform (Boom Length 11 Metres or more)	30
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE105A	Fix and secure electrotechnology equipment	20
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UETTDREL11A	Apply sustainable energy and environmental procedures	40
UETTDREL12A	Operate plant and equipment near live electrical conductors and apparatus	40
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDRI62A	Implement and monitor the power system organisational OHS policies, procedures and programs	60
UETTDRI63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	60
Electives		
BSBMGT403A	Implement continuous improvement	40
AHCARB205A	Operate and maintain chainsaws	40
UETTDRCJ22A	Install and maintain de-energised low voltage underground paper insulated cables.	60
UETTDRCJ25A	Perform straight through high voltage paper insulated to polymeric transition joint	60
UETTDRCJ26A	Install and maintain de-energised low voltage underground polymeric cables.	60
UETTDRCJ27A	Install and maintain de-energised high voltage underground polymeric cables.	60
UETTDRCJ28A	Joint and maintain energised low voltage underground polymeric cables	60
UETTDROP11A	Inspect overhead poles/structures and electrical apparatus	60
UETTDRI59A	Conduct high potential testing of power system underground power cables	60
UETTDRCJ29A	Install gas and oil filled specialised underground cables	60
UETTDRCJ30A	Maintain gas and oil filled specialised underground cables	60

UETDRDS31A	Draft and layout an power system overhead distribution extension	60
UETDRIS48A	Develop high voltage switching schedule	60
UETDRIS51A	Coordinate and direct power system switching schedules	60
UETDRIS64A	Install mobile Generation set for synchronised HV Genset	40
	Total Hours	1510

Occupation / Work Function	Electricity Supply Technician	
Qualification Title	Diploma of ESI — Power Systems	
Qualification Code	UET50212	
Description	Appropriate for persons working as technicians in the electricity supply industry designing new transmission distribution and/or rail overhead and underground lines. Typically inside work in design/drafting facility, control room or substation.	
Notes	This sample programs shows the System Operations specialisation. For advice on how to choose electives others than those listed below, please refer to the UET12 ESI Transmission, Distribution and Rail Sector Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880	
Unit Code	Unit Title	Hours
Core		
UEENEED104A	Use software for engineering applications	40
UEENEEE124A	Compile and produce an electrotechnology/ utilities report	60
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEE125A	Provide engineering solutions for problems in complex multiple path circuits	60
UEENEEE126A	Provide solutions to basic engineering computational problems	60
UEENEED101A	Solve problems in electromagnetic devices and related circuits	60
UEENEED102A	Solve problems in low voltage a.c. circuits	80
UEENEED149A	Provide engineering solutions to problems in complex polyphase power circuits	60
UETTDREL11A	Apply sustainable energy and environmental procedures	40
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDRI62A	Implement and monitor the power system organisational OHS policies, procedures and programs	60
UETTDRI63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	60
Electives		
BSBMGT502B	Manage people performance	70
BSBMGT515A	Manage operational plan	60
BSBINM501A	Manage an information or knowledge management system	50
BSBINN502A	Build and sustain an innovative work environment	50
UEENEEH102A	Repair basic electronic apparatus faults by replacement of components	40
UETTDRDS31A	Draft and layout an power system overhead distribution extension	60
UEENEEH139A	Troubleshoot basic amplifier circuits	40
UEENEEI155A	Develop structured programs to control external devices	40
UETTDRDS32A	Draft and layout an power system underground distribution extension	60
UETTDRDS33A	Draft and layout a power system street lighting system	60
UETTDRDS35A	Design overhead distribution power systems	90
UETTDRDS36A	Design underground distribution power systems	90
UETTDRDS36A	Design underground distribution power systems	90
	Total Hours	1580

Occupation / Work Function	Technical Officer	
Qualification Title	Advanced Diploma of ESI — Power Systems	
Qualification Code	UTE60212	
Description	Appropriate for persons working as technical officers in the electricity supply industry performing higher level managerial, design, testing and system operation functions.	
Notes	This sample programs shows the System Operations specialisation. For advice on how to choose electives others than those listed below, please refer to the UET12 ESI Transmission, Distribution and Rail Sector Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9880	
Unit Code	Unit Title	Hours
Core		
UEENEED104A	Use software for engineering applications	40
UEENEEE124A	Compile and produce an electrotechnology/ utilities report	60
UEENEEE083A	Establish and follow a competency development plan in an electrotechnology engineering discipline	20
UEENEEE101A	Apply Occupational Health Safety regulations, codes and practices in the workplace	20
UEENEEE102A	Fabricate, dismantle, assemble of utilities industry components	40
UEENEEE104A	Solve problems in d.c. circuits	80
UEENEEE107A	Use drawings, diagrams, schedules, standards, codes and specifications	40
UEENEEE125A	Provide engineering solutions for problems in complex multiple path circuits problems	60
UEENEEE126A	Provide solutions to basic engineering computational problems	60
UEENEEG101A	Solve problems in electromagnetic devices and related circuits	60
UEENEEG102A	Solve problems in low voltage a.c. circuits	80
UEENEEG149A	Provide engineering solutions to problems in complex polyphase power circuits	60
UETTDREL11A	Apply sustainable energy and environmental procedures	40
UETTDREL16A	Working safely near live electrical apparatus	20
UETTDRLS62A	Implement and monitor the power system organisational OHS policies, procedures and programs	60
UETTDRLS63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	60
Electives		
BSBWOR501B	Manage personal work priorities and professional development	60
BSBMGT502B	Manage people performance	70
BSBINM501A	Manage an information or knowledge management system	50
BSBMGT516C	Facilitate continuous improvement	60
BSBLED501A	Develop a workplace learning environment	60
BSBWOR502B	Ensure team effectiveness	60
UEENEEH102A	Repair basic electronic apparatus faults by replacement of components	40
UEENEEH139A	Troubleshoot basic amplifier circuits	40
UETTDREL15A	Respond to power systems technical enquiries and requests	60
UEENEED117A	Install and configure Internetworking systems	120

UETTDRDS44A	Design power system zone substations modifications	105
UETTDRIS69A	Diagnose and rectify faults in energy supply apparatus	60
UETTDRIS70A	Diagnose and rectify faults in electrical energy distribution systems	60
UETTDRIS72A	Diagnose and rectify faults in distributed Generation systems	60
UETTDRDS48A	Analyse and appraise power system fault and outage data	120
UETTDRIS71A	Diagnose and rectify faults in electrical energy supply transmission systems	60
UETTDRIS73A	Develop engineering solutions for energy supply power transformer problems	60
UETTDRSO34A	Control power systems generating plant	120
	Total Hours	2065

CONTACTS AND LINKS

Industry Skills Council (ISC)		
EE-Oz Training Standards	This ISC is responsible for developing this UET12 Electricity Supply Industry Transmission, Distribution and Rail Sector Training Package and can be contacted for further information. You can also source copies of the Training Package and support material.	Unit 2 48 Mort Street BRADDON, ACT, 2612 Phone: (02) 6262 7055 Fax: (02) 6257 4222 Email: ee-oz@ee-oz.com.au Web: http://www.ee-oz.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.	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 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 Adda Box Hill Institute of TAFE, Private Bag 2014, Box Hill, Victoria, 3128 Phone: (03) 9286 9880 Fax: (03) 9286 9800 Email: g.adda@bhtafe.edu.au Web: 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 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 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 5 Building 2 4 Riverside Quay Southbank, VIC, 3006 Postal Address: PO BOX 262 Collins Street West Melbourne, Vic 8007 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 Info line: 1800 136 089

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.
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.