

**ELECTRICITY SUPPLY INDUSTRY –
TRANSMISSION, DISTRIBUTION
AND RAIL SECTOR
TRAINING PACKAGE**

UET06

PURCHASING GUIDE

**Western Australian Department of Education and
Training**

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Foreword

This Purchasing Guide has been generated to enable the stakeholders in the Electricity Supply Industry in Western Australia to participate in the managed implementation of the National Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06.

Information within this Guide should provide guidance on how competency standards may be selected and applied to achieve suitable outcomes and qualifications, for and within an industry.

The Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06 was endorsed by Ministers for vocational education and training in November 2006.

Introduction

This Guide provides information that will facilitate the implementation of the Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06 in Western Australia. This Guide is designed to aid Registered Training Organisations (RTOs) to convert from Training Package qualifications to revised Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06.

The Guide provides information on:

- Transition arrangements
- Funding
- A mapping of current publicly funded qualifications to the revised Training Package qualifications
- An allocation of nominal hours to units of competency and total hours for qualifications
- A mapping of current Traineeship and Apprenticeship courses to new qualifications
- A set of appropriate sample, or model, training programs at each AQF level

Obtaining the Training Package

The Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06 can be purchased from:

Australian Training Products

Level 25

150 Lonsdale Street

Melbourne VIC 3000

Telephone: (03) 9655 0600

Facsimile: (03) 9639 4684

Email: sales@atpl.net.au

Web: www.atpl.net.au

Information on National Training Packages is also available through the National Training Information Service (NTIS), which can be located on the Internet at:

www.ntis.gov.au

<p>All RTOs who have Training Package qualifications on their Scope of Delivery must obtain a copy of the relevant Training Package.</p>

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of endorsement of the Training Package by the National Training Quality Council (NTQC). A current accredited course, however, may be used until its accreditation expires.

An Amendment to Scope will be necessary where the industry area is not within scope. The Training Accreditation Council (TAC) will need to be advised of any new qualifications from the Training Package being delivered.

Transition to New Qualifications

Students currently enrolled in a Training Package qualification in Electricity Supply Industry should be permitted to complete the program they enrolled in initially, unless the move to the related qualification from a Training Package can be made without disadvantage to a student.

Funding

Some learners may only achieve a Statement of Attainment during their enrolment period with the RTO. Separate funding is not provided to assess the learner who has left his/her studies and then, at a later date, wants to complete an integrated assessment to achieve a certificate qualification. The RTO will be required to make special arrangements to issue the final qualification. This process may involve an invitation to the employer (if applicable) to participate in the assessment in the workplace.

Nominal Duration of Qualifications

The maximum nominal hours are identified for each Training Package qualification. Nominal hours may vary within a qualification depending on the units of competency selected and the delivery strategies used; however, training delivery will not be funded beyond the maximum nominal hours indicated. Nominal hours are for structured training only and include both delivery and assessment.

Definition of nominal hours (supervised)

The hours of supervised learning or training deemed necessary to cover the educational material in a training program when undertaken in standard classroom delivery mode. (*Source: A Glossary of Australian Vocational Education and Training Terms*).

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the Electricity Supply Industry - Transmission, Distribution and Rail Sector UET06 Training Package.

National ID	Training Package Qualification Title	Maximum Nominal Hours
UET20106	Certificate II in ESI - Vegetation Control	350
UET20206	Certificate II in ESI - Transmission Line Assembly	240
UET30106	Certificate III in ESI - Transmission	960
UET30206	Certificate III in ESI - Distribution	950
UET30306	Certificate III in ESI - Rail Traction	1010
UET30406	Certificate III in ESI - Cable Jointing	890
UET40106	Certificate IV in ESI - Power Systems	340
UET40206	Certificate IV in ESI - Substation	360
UET40306	Certificate IV in ESI - Network Infrastructure	350
UET50106	Diploma of ESI - Power Systems	1360
UET60106	Advanced Diploma of ESI - Power Systems	1950

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the Electricity Supply Industry - Transmission, Distribution and Rail Sector Training Package UET06.

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
UETDRDS18A	Analyse and appraise fault and outage data	120	180
UETDREL01A	Apply environmental and sustainable energy procedures	40	-
UETDRVC04A	Assess vegetation and recommend control measures for work near live electrical apparatus	50	35
UETDRSB02A	Carry out substation inspection	20	-
UETDRSB14A	Carry out thermovision surveys	20	90
UETDRSB16A	Commission discrete protection and control systems	30	110
UETDRSB18A	Commission distribution field devices	30	110
UETDRTS06A	Commission metering schemes	100	150
UETDRTS16A	Commission network protection and control systems (complex)	140	220
UETDRTS02A	Commission network protection and control systems (interdependent)	100	150
UETDREL03A	Comply with environmental and incidental response procedures	40	-
UETDRTS03A	Conduct evaluation of power system faults within a substation	120	180
UETDRTS12A	Conduct evaluation of primary plant	130	200
UETDRIS19A	Conduct high potential testing of underground power cables	50	90
UETDRIS17A	Conduct visual checking and treatment of poles and structures	25	40
UETDRIS25A	Contribute to coordinated high voltage live line work	50	100
UETDRSO04A	Control generating plant	120	180
UETDRVC09A	Control vegetation (linework)	40	80
UETDRIS11A	Coordinate and direct switching schedules	60	110
UETDRSO10A	Coordinate HV distribution and sub transmission networks	100	150
UETDRSO13A	Coordinate LV distribution network demand	100	150
UETDRSO09A	Coordinate LV distribution networks	100	150
UETDRIS10A	Coordinate permit procedures	60	120
UETDRVC10A	Coordinate vegetation control work	160	120
UETDRVC01A	Cut vegetation above ground outside live work zone near live electrical apparatus (climbing)	50	35
UETDRVC05A	Cut vegetation above ground outside live work zone near live electrical apparatus (platform)	45	30
UETDRVC06A	Cut vegetation at ground level outside vegetation exclusion zone' near live electrical apparatus	45	30
UETDRDS20A	Design customer substation	100	150

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
UETTDARDS07A	Design distribution substations	90	140
UETTDARDS05A	Design overhead distribution systems	90	140
UETTDARDS27A	Design overhead transmission systems	130	200
UETTDARDS08A	Design public lighting systems	90	140
UETTDARTS10A	Design secondary isolation instructional documents	130	200
UETTDARTS04A	Design testing and commissioning procedures for substation and field devices	120	180
UETTDARDS26A	Design transmission, sub-transmission and zone substation civil and structural components	130	200
UETTDARDS22A	Design transmission, sub-transmission and zone substation buildings	130	200
UETTDARDS25A	Design transmission, sub-transmission and zone substation earthing	130	200
UETTDARDS23A	Design transmission, sub-transmission and zone substation primary plant	140	220
UETTDARDS24A	Design transmission, sub-transmission and zone substation protection and control systems	140	220
UETTDARDS06A	Design underground distribution systems	90	140
UETTDARDS28A	Design underground transmission systems	130	200
UETTDARDS14A	Design zone substation modifications	105	160
UETTDARSO08A	Develop and evaluate transmission switching programs	100	150
UETTDARSO14A	Develop crisis management plans	100	180
UETTDARDS13A	Develop HV and LV distribution protection systems	100	150
UETTDARSO07A	Develop HV distribution and sub transmission switching programs	100	150
UETTDARIS08A	Develop HV switching schedule	60	110
UETTDARSO06A	Develop LV distribution switching programs	100	150
UETTDARIS09A	Develop LV switching schedule	60	110
UETTDARDS16A	Develop planned outage strategies	90	140
UETTDARTS09A	Develop secondary isolation instructional documents	100	150
UETTDARSB01A	Diagnose and rectify faults in power system substation environment	20	-
UETTDARDS04A	Draft and layout a distribution substation minor upgrade	60	120
UETTDARDS03A	Draft and layout a street lighting system	60	110
UETTDARDS01A	Draft and layout an overhead distribution extension	60	110
UETTDARDS02A	Draft and layout an underground distribution extension	60	110
UETTDARTP04A	Erect transmission tower hardware	70	30
UETTDARTP03A	Erect transmission towers	70	-
UETTDARTP06A	Erect transmission towers and associated hardware	60	100
UETTDARDS19A	Establish and manage geographical information system data	90	140
UETTDARTP02A	Establish and reinstate a transmission tower work site	90	35
UETTDARIS23A	Implement and monitor environmental and sustainable energy management policies and	60	-

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
	procedures		
UETTDNIS22A	Implement and monitor the organisational OHS policies, procedures and programs	40	-
UETTDNDP01A	Inspect overhead structures and electrical apparatus (poles /structures)	40	90
UETTDNDTP10A	Inspect overhead structures and electrical apparatus (towers)	60	100
UETTDNDP05A	Inspect, maintain and restore energised LV overhead distribution network infrastructure	50	130
UETTDNDRCJ03A	Install and maintain de-energised HV underground paper insulated cables	60	100
UETTDNDRCJ07A	Install and maintain de-energised HV underground polymeric cables	60	90
UETTDNDRCJ02A	Install and maintain de-energised LV underground paper insulated cables	60	100
UETTDNDRCJ06A	Install and maintain de-energised LV underground polymeric cables	60	90
UETTDNDNIS16A	Install and maintain low voltage services (overhead)	40	80
UETTDNDNIS15A	Install and maintain low voltage services (underground)	40	80
UETTDNDNIS06A	Install and maintain network infrastructure electrical equipment	40	110
UETTDNDRCJ14A	Install and maintain network infrastructure HV underground cables	50	130
UETTDNDRCJ13A	Install and maintain network infrastructure LV underground cables	40	120
UETTDNDRCJ12A	Install and maintain oil & gas pressure systems for specialised underground cables	65	130
UETTDNDNIS14A	Install and maintain overhead conductors and cables (poles and structures)	50	100
UETTDNDNDTP09A	Install and maintain overhead conductors and cables (towers)	60	100
UETTDNDNIS27A	Install and maintain overhead distribution network infrastructure	40	120
UETTDNDNDTP14A	Install and maintain overhead transmission network infrastructure	40	120
UETTDNDNIS12A	Install and maintain poles/structures and associated hardware	60	90
UETTDNDRCJ11A	Install and maintain polymeric specialised underground cables	65	130
UETTDNDNDRTS14A	Install and maintain power system communication equipment	100	150
UETTDNDNIS13A	Install and maintain public lighting systems	60	80
UETTDNDRSB03A	Install and maintain substation DC systems	20	-
UETTDNDNDRRT15A	Install and maintain traction network equipment and components	40	130
UETTDNDNDRRT14A	Install and maintain traction network wiring systems	40	110
UETTDNDNDRTP15A	Install and maintain transmission network infrastructure electrical equipment	40	130
UETTDNDNIS20A	Install and replace energy meters and associated equipment	60	90
UETTDNDNIS01A	Install electrical equipment (network infrastructure)	50	100

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
UETTDRSB06A	Install high current DC switchgear and equipment	30	110
UETTDRSB13A	Install HV plant and equipment	30	110
UETTDNIS24A	Install mobile generation set for synchronised genset HV	40	90
UETTDNIS21A	Install mobile generation set for synchronised genset LV	60	90
UETTDRCJ09A	Install oil and gas filled specialised underground cables	60	120
UETTDRT05A	Install overhead traction configurations	60	90
UETTDRT07A	Install overhead traction equipment and components	60	90
UETTDRT01A	Install overhead traction wiring systems	60	90
UETTDRT03A	Install traction bonds	40	80
UETTDSD12A	Investigate quality of supply issues	90	140
UETTDRCJ04A	Joint and maintain energised LV underground paper insulated cables	60	100
UETTDRCJ08A	Joint and maintain energised LV underground polymeric cables	60	90
UETTDRCJ01A	Lay electrical cables	20	30
UETTDNIS18A	Locate faults in underground power cables	50	110
UETTDRSB15A	Maintain discrete protection and control systems	30	110
UETTDRSB17A	Maintain distribution field devices	30	110
UETTDNIS02A	Maintain electrical equipment (network infrastructure)	50	100
UETTDRT11A	Maintain energised direct current traction overhead wiring systems	60	120
UETTDSDP04A	Maintain energised high voltage distribution overhead electrical apparatus (glove)	70	130
UETTDSDP03A	Maintain energised high voltage distribution overhead electrical apparatus (stick)	70	130
UETTDRT12A	Maintain energised lines (transmission) using Bare Hand technique	70	130
UETTDRT13A	Maintain energised lines (transmission) using Bare Hand technique on a helicopter platform	60	130
UETTDRT11A	Maintain energised lines (transmission) using live line stick technique	70	130
UETTDRT13A	Maintain energised traction overhead electrical apparatus (glove)	70	130
UETTDRT12A	Maintain energised traction overhead electrical apparatus (stick)	70	130
UETTDRSB07A	Maintain high current DC switchgear and equipment	30	110
UETTDRSB04A	Maintain HV power system breakers	20	-
UETTDRSB10A	Maintain HV power system static VAR compensators	30	110
UETTDRSB11A	Maintain HV power system synchronous condensers	30	110
UETTDRSB05A	Maintain HV power system transformers and instrument transformers	20	-
UETTDRTS15A	Maintain network protection and control systems (complex)	140	220
UETTDRTS01A	Maintain network protection and control systems (interdependent)	100	150

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
UETTDRCJ10A	Maintain oil and gas filled specialised underground cables	60	120
UETTDTRDP02A	Maintain overhead energised LV conductors and cables	50	100
UETTDTRRT06A	Maintain overhead traction configurations	60	100
UETTDTRRT08A	Maintain overhead traction equipment and components	60	100
UETTDTRRT02A	Maintain overhead traction wiring systems	60	100
UETTDTRRT04A	Maintain traction bonds	60	90
UETTDTRTP07A	Maintain transmission towers and associated hardware	60	100
UETTDTRSB09A	Maintain voltage regulating equipment - capacitor banks	30	110
UETTDTRSB12A	Maintain voltage regulating equipment - on load tapchangers	30	110
UETTDTRTS11A	Maintain, test and commission voltage regulating equipment	80	120
UETTDTRIS26A	Manage an electrical supply industry OHS management system	100	-
UETTDTRSO03A	Manage critical events	140	220
UETTDTRDS11A	Manage electrical infrastructure projects	130	200
UETTDTRSO05A	Manage HV distribution and sub transmission network demand	140	220
UETTDTRSO02A	Manage network faults	140	220
UETTDTRSO12A	Manage transmission network demand	130	200
UETTDTRSO11A	Manage transmission networks	130	200
UETTDTRDS21A	Manage transmission, sub-transmission and zone substation design process	120	180
UETTDTRVC07A	Monitor safety compliance for vegetation work near live electrical apparatus	50	-
UETTDREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDTRRT09A	Operate road rail traction height access equipment	25	40
UETTDTRVC02A	Operate vegetation control plant, machinery and equipment near live electrical apparatus	50	-
UETTDTRDS15A	Organise and implement line and easement surveys	90	140
UETTDTRTS07A	Perform accuracy checks on instrument transformers	100	150
UETTDTRIS04A	Perform high voltage field switching operation to a given schedule	40	80
UETTDTRIS03A	Perform LV field switching operation to a given schedule	40	80
UETTDTRRT10A	Perform rail traction switching operations to a given schedule	40	80
UETTDRCJ05A	Perform straight through HV paper insulated to polymeric transition joints	60	90
UETTDTRIS05A	Perform substation switching operation to a given schedule	40	80
UETTDTRVC03A	Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	50	-
UETTDTRTP05A	Pre-tension stringing transmission overhead conductors and cables	40	35

National ID	Training Package Unit Title	Maximum Nominal Hours	Points
UETTDARDS10A	Prepare and appraise financial impact statements	130	200
UETTDARDS09A	Prepare and manage detailed construction plans for electrical system infrastructure	90	140
UETTDARSB08A	Reserved	0	-
UETTDARS01A	Reserved	0	-
UETTDARTP01A	Reserved	0	-
UETTDAREL05A	Respond to technical enquiries and requests	60	90
UETTDARDS17A	Review asset management strategies	120	180
UETTDARVC08A	Safe use of Elevating Work Platform (EWP) near live electrical apparatus	50	35
UETTDARIS07A	Sample, test, filter and reinstate insulating oil	20	80
UETTDARTS05A	Test and maintain metering schemes	90	140
UETTDARTS08A	Test, repair and calibrate protection relays and meters	100	150
UETTDARTP08A	Transmission tower stub setting	50	90
UETTDARTS13A	Undertake project management of substation augmentation and maintenance	140	220
UETTDAREL04A	Working safely near live electrical apparatus as non electrical worker	40	-

UET06 Training Package Qualifications which replace UTT98 Training Package Qualifications

The following table provides an overview of the qualifications from the Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package - UEP06 which replace qualifications from the Electricity Supply Industry – Transmission & Distribution Sector Training Package UTT98.

ESI – Transmission and Distribution Sector Training Package UTT98			ESI – Transmission, Distribution & Rail Sector Training Package UET06		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
	No Previous Equivalent		UET20106	Certificate II in ESI - Vegetation Control	350
	No Previous Equivalent		UET20206	Certificate II in ESI - Transmission Line Assembly	240
	No Previous Equivalent		UET30106	Certificate III in ESI - Transmission	960
UTT30101	Certificate III in ESI - Distribution (Powerline)	928	UET30206	Certificate III in ESI - Distribution	950
	No Previous Equivalent		UET30306	Certificate III in ESI - Rail Traction	1010
UTT30301	Certificate III in ESI - Cable Jointing (Powerline)	0	UET30406	Certificate III in ESI - Cable Jointing	890
UTT40101	Certificate IV in ESI - Transmission (Powerline)	0	UET40106	Certificate IV in ESI - Power Systems	340
UTT40201	Certificate IV in ESI - Distribution (Powerline)	0	UET40106	Certificate IV in ESI - Power Systems	340
UTT40301	Certificate IV in ESI - Transmission and Distribution (Substation)	0	UET40206	Certificate IV in ESI - Substation	360
	No Previous Equivalent		UET40306	Certificate IV in ESI - Network Infrastructure	350
	No Previous Equivalent		UET50106	Diploma of ESI - Power Systems	1360
	No Previous Equivalent		UET60106	Advanced Diploma of ESI - Power Systems	1950

Existing units of competency which are replaced by units of competency from the revised Transmission, Distribution and Rail Sector Training Package - UET06

The following table provides an overview of the units of competency from the Electricity Supply Industry - Transmission And Distribution Training Package (Superseded by UET06) - UTT98 which are replaced by the units of competency from the Transmission, Distribution and Rail Sector Training Package - UET06

Electricity Supply Industry - Transmission And Distribution Training Package UTT98			Transmission, Distribution and Rail Sector Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	No Previous Equivalent		UETTD RDS18A	Analyse and appraise fault and outage data	120
UTTNTD321A	Implement environmental and sustainable energy procedures	0	UETTDREL01A	Apply environmental and sustainable energy procedures	40
	No Previous Equivalent		UETTD RVC04A	Assess vegetation and recommend control measures for work near live electrical apparatus	50
	No Previous Equivalent		UETTD RSB02A	Carry out substation inspection	20
	No Previous Equivalent		UETTD RSB14A	Carry out thermovision surveys	20
	No Previous Equivalent		UETTD RSB16A	Commission discrete protection and control systems	30
	No Previous Equivalent		UETTD RSB18A	Commission distribution field devices	30
	No Previous Equivalent		UETTD RTS06A	Commission metering schemes	100
	No Previous Equivalent		UETTD RTS16A	Commission network protection and control systems (complex)	140
	No Previous Equivalent		UETTD RTS02A	Commission network protection and control systems (interdependent)	100
UTTNTD321A	Implement environmental and sustainable energy procedures	0	UETTDREL03A	Comply with environmental and incidental response procedures	40
	No Previous Equivalent		UETTD RTS03A	Conduct evaluation of power system faults within a substation	120
	No Previous Equivalent		UETTD RTS12A	Conduct evaluation of primary plant	130

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	No Previous Equivalent		UETTDRIS19A	Conduct high potential testing of underground power cables	50
UTTNTD206A	Conduct ground line inspection and maintenance of poles	40	UETTDRIS17A	Conduct visual checking and treatment of poles and structures	25
	No Previous Equivalent		UETTDRIS25A	Contribute to coordinated high voltage live line work	50
	No Previous Equivalent		UETTDRSO04A	Control generating plant	120
UTENES204A	Vegetation Control	1	UETTDRVC09A	Control vegetation (linework)	40
UTTNTD318A	Control vegetation	0	UETTDRVC09A	Control vegetation (linework)	40
	No Previous Equivalent		UETTDRIS11A	Coordinate and direct switching schedules	60
	No Previous Equivalent		UETTDRSO10A	Coordinate HV distribution and sub transmission networks	100
	No Previous Equivalent		UETTDRSO13A	Coordinate LV distribution network demand	100
	No Previous Equivalent		UETTDRSO09A	Coordinate LV distribution networks	100
	No Previous Equivalent		UETTDRIS10A	Coordinate permit procedures	60
UTTNTD406A	Coordinate vegetation control	160	UETTDRVC10A	Coordinate vegetation control work	160
	No Previous Equivalent		UETTDRVC01A	Cut vegetation above ground outside live work zone near live electrical apparatus (climbing)	50
	No Previous Equivalent		UETTDRVC05A	Cut vegetation above ground outside live work zone near live electrical apparatus (platform)	45
	No Previous Equivalent		UETTDRVC06A	Cut vegetation at ground level outside vegetation exclusion zone' near live electrical apparatus	45
	No Previous Equivalent		UETTDRDS20A	Design customer substation	100
	No Previous Equivalent		UETTDRDS07A	Design distribution substations	90
	No Previous Equivalent		UETTDRDS05A	Design overhead distribution systems	90
	No Previous Equivalent		UETTDRDS27A	Design overhead transmission systems	130
	No Previous Equivalent		UETTDRDS08A	Design public lighting systems	90
	No Previous Equivalent		UETTDRTS10A	Design secondary isolation instructional documents	130
	No Previous Equivalent		UETTDRTS04A	Design testing and commissioning procedures	120

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				for substation and field devices	
	No Previous Equivalent		UETTDRDS26A	Design transmission, sub-transmission and zone substation civil and structural components	130
	No Previous Equivalent		UETTDRDS22A	Design transmission, sub-transmission and zone substation buildings	130
	No Previous Equivalent		UETTDRDS25A	Design transmission, sub-transmission and zone substation earthing	130
	No Previous Equivalent		UETTDRDS23A	Design transmission, sub-transmission and zone substation primary plant	140
	No Previous Equivalent		UETTDRDS24A	Design transmission, sub-transmission and zone substation protection and control systems	140
	No Previous Equivalent		UETTDRDS06A	Design underground distribution systems	90
	No Previous Equivalent		UETTDRDS28A	Design underground transmission systems	130
	No Previous Equivalent		UETTDRDS14A	Design zone substation modifications	105
	No Previous Equivalent		UETTDRSO08A	Develop and evaluate transmission switching programs	100
	No Previous Equivalent		UETTDRSO14A	Develop crisis management plans	100
	No Previous Equivalent		UETTDRDS13A	Develop HV and LV distribution protection systems	100
	No Previous Equivalent		UETTDRSO07A	Develop HV distribution and sub transmission switching programs	100
	No Previous Equivalent		UETTDRIS08A	Develop HV switching schedule	60
	No Previous Equivalent		UETTDRSO06A	Develop LV distribution switching programs	100
	No Previous Equivalent		UETTDRIS09A	Develop LV switching schedule	60
	No Previous Equivalent		UETTDRDS16A	Develop planned outage strategies	90
	No Previous Equivalent		UETTDRTS09A	Develop secondary isolation instructional documents	100
	No Previous Equivalent		UETTDRSB01A	Diagnose and rectify faults in power system substation environment	20
UTTNTD403A	Plan and lay out an underground distribution extension	0	UETTDRDS04A	Draft and layout a distribution substation minor upgrade	60

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
UTTNTD421A	Plan and layout a street lighting system	0	UETTD RDS03A	Draft and layout a street lighting system	60
UTTNTD402A	Plan and lay out an overhead distribution extension	0	UETTD RDS01A	Draft and layout an overhead distribution extension	60
UTTNTD403A	Plan and lay out an underground distribution extension	0	UETTD RDS02A	Draft and layout an underground distribution extension	60
UTTNTD208A	Erect towers and associated hardware	70	UETTD RTP04A	Erect transmission tower hardware	70
UTTNTD208A	Erect towers and associated hardware	70	UETTD RTP03A	Erect transmission towers	70
UTTNTD208A	Erect towers and associated hardware	70	UETTD RTP06A	Erect transmission towers and associated hardware	60
	No Previous Equivalent		UETTD RDS19A	Establish and manage geographical information system data	90
	No Previous Equivalent		UETTD RTP02A	Establish and reinstate a transmission tower work site	90
UTTNTD414A	Implement & monitor environmental and sustainable energy management policies & procedures	60	UETTD RIS23A	Implement and monitor environmental and sustainable energy management policies and procedures	60
UTTNTD413A	Implement and monitor the organisation's OH&S policies, procedures and programs	40	UETTD RIS22A	Implement and monitor the organisational OHS policies, procedures and programs	40
UTTNTD303A	Inspect overhead structures and electrical apparatus	40	UETTD RDP01A	Inspect overhead structures and electrical apparatus (poles /structures)	40
UTTNTD303A	Inspect overhead structures and electrical apparatus	40	UETTD RTP10A	Inspect overhead structures and electrical apparatus (towers)	60
	No Previous Equivalent		UETTD RDP05A	Inspect, maintain and restore energised LV overhead distribution network infrastructure	50
UTTNTD307A	Install and maintain underground paper-lead cables	200	UETTD RCJ03A	Install and maintain de-energised HV underground paper insulated cables	60
UTTNTD320A	Install and maintain underground polymeric cables	200	UETTD RCJ07A	Install and maintain de-energised HV underground polymeric cables	60
UTTNTD307A	Install and maintain underground paper-lead cables	200	UETTD RCJ02A	Install and maintain de-energised LV underground paper insulated cables	60

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
UTTNTD302A	Maintain towers and associated hardware	60	UETTDRCJ06A	Install and maintain de-energised LV underground polymeric cables	60
UTTNTD320A	Install and maintain underground polymeric cables	200	UETTDRCJ06A	Install and maintain de-energised LV underground polymeric cables	60
	No Previous Equivalent		UETTDRCJ16A	Install and maintain low voltage services (overhead)	40
	No Previous Equivalent		UETTDRCJ15A	Install and maintain low voltage services (underground)	40
	No Previous Equivalent		UETTDRCJ06A	Install and maintain network infrastructure electrical equipment	40
	No Previous Equivalent		UETTDRCJ14A	Install and maintain network infrastructure HV underground cables	50
	No Previous Equivalent		UETTDRCJ13A	Install and maintain network infrastructure LV underground cables	40
UTTNTD405A	Install and maintain underground cables	0	UETTDRCJ12A	Install and maintain oil & gas pressure systems for specialised underground cables	65
UTTNTD305A	Install and maintain overhead conductors and cables	0	UETTDRCJ14A	Install and maintain overhead conductors and cables (poles and structures)	50
UTTNTD305A	Install and maintain overhead conductors and cables	0	UETTDRCJ09A	Install and maintain overhead conductors and cables (towers)	60
	No Previous Equivalent		UETTDRCJ27A	Install and maintain overhead distribution network infrastructure	40
	No Previous Equivalent		UETTDRCJ14A	Install and maintain overhead transmission network infrastructure	40
UTTNTD301A	Maintain poles and associated hardware	80	UETTDRCJ12A	Install and maintain poles/structures and associated hardware	60
UTTNTD405A	Install and maintain underground cables	0	UETTDRCJ11A	Install and maintain polymeric specialised underground cables	65
	No Previous Equivalent		UETTDRCJ14A	Install and maintain power system communication equipment	100
UTTNTD304B	Install and maintain public lighting	0	UETTDRCJ13A	Install and maintain public lighting systems	60

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	systems				
	No Previous Equivalent		UETTDRSB03A	Install and maintain substation DC systems	20
	No Previous Equivalent		UETTDRRT15A	Install and maintain traction network equipment and components	40
	No Previous Equivalent		UETTDRRT14A	Install and maintain traction network wiring systems	40
	No Previous Equivalent		UETTDRTP15A	Install and maintain transmission network infrastructure electrical equipment	40
UTTNTD311B	Install and replace energy meters and associated equipment	70	UETTDRIS20A	Install and replace energy meters and associated equipment	60
UTTNTD308A	Install and maintain electrical equipment	0	UETTDRIS01A	Install electrical equipment (network infrastructure)	50
	No Previous Equivalent		UETTDRSB06A	Install high current DC switchgear and equipment	30
	No Previous Equivalent		UETTDRSB13A	Install HV plant and equipment	30
	No Previous Equivalent		UETTDRIS24A	Install mobile generation set for synchronised genset HV	40
	No Previous Equivalent		UETTDRIS21A	Install mobile generation set for synchronised genset LV	60
UTTNTD405A	Install and maintain underground cables	0	UETTDRCJ09A	Install oil and gas filled specialised underground cables	60
UTTNTD325A	Install and maintain overhead traction configurations	0	UETTDRRT05A	Install overhead traction configurations	60
UTTNTD326A	Install and maintain overhead traction equipment	0	UETTDRRT07A	Install overhead traction equipment and components	60
UTTNTD323A	Install and maintain overhead traction wiring systems	0	UETTDRRT01A	Install overhead traction wiring systems	60
UTTNTD324A	Install and maintain traction bonding	0	UETTDRRT03A	Install traction bonds	40
	No Previous Equivalent		UETTDRDS12A	Investigate quality of supply issues	90
UTTNTD307A	Install and maintain underground paper-lead cables	200	UETTDRCJ04A	Joint and maintain energised LV underground paper insulated cables	60

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
UTTNTD320A	Install and maintain underground polymeric cables	200	UETTDRJ08A	Joint and maintain energised LV underground polymeric cables	60
	No Previous Equivalent		UETTDRJ01A	Lay electrical cables	20
UTTNTD322A	Locate faults in power cables	0	UETTDRIS18A	Locate faults in underground power cables	50
	No Previous Equivalent		UETTDRSB15A	Maintain discrete protection and control systems	30
	No Previous Equivalent		UETTDRSB17A	Maintain distribution field devices	30
UTTNTD308A	Install and maintain electrical equipment	0	UETTDRIS02A	Maintain electrical equipment (network infrastructure)	50
	No Previous Equivalent		UETTDRRT11A	Maintain energised direct current traction overhead wiring systems	60
UTTNTD404A	Maintain energised high voltage overhead electrical apparatus	0	UETTDRDP04A	Maintain energised high voltage distribution overhead electrical apparatus (glove)	70
UTTNTD404A	Maintain energised high voltage overhead electrical apparatus	0	UETTDRDP03A	Maintain energised high voltage distribution overhead electrical apparatus (stick)	70
UTTNTD444A	Maintain energised high voltage overhead electrical apparatus (transmission)	0	UETTDRTP12A	Maintain energised lines (transmission) using Bare Hand technique	70
UTTNTD444A	Maintain energised high voltage overhead electrical apparatus (transmission)	0	UETTDRTP13A	Maintain energised lines (transmission) using Bare Hand technique on a helicopter platform	60
	No Previous Equivalent		UETTDRTP11A	Maintain energised lines (transmission) using live line stick technique	70
	No Previous Equivalent		UETTDRRT13A	Maintain energised traction overhead electrical apparatus (glove)	70
	No Previous Equivalent		UETTDRRT12A	Maintain energised traction overhead electrical apparatus (stick)	70
	No Previous Equivalent		UETTDRSB07A	Maintain high current DC switchgear and equipment	30
	No Previous Equivalent		UETTDRSB04A	Maintain HV power system breakers	20
	No Previous Equivalent		UETTDRSB10A	Maintain HV power system static VAR	30

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				compensators	
	No Previous Equivalent		UETTDRSB11A	Maintain HV power system synchronous condensers	30
	No Previous Equivalent		UETTDRSB05A	Maintain HV power system transformers and instrument transformers	20
	No Previous Equivalent		UETTDRTS15A	Maintain network protection and control systems (complex)	140
	No Previous Equivalent		UETTDRTS01A	Maintain network protection and control systems (interdependent)	100
	No Previous Equivalent		UETTDRCJ10A	Maintain oil and gas filled specialised underground cables	60
UTTNTD306B	Maintain overhead energised LV conductors and cables	0	UETTDRDP02A	Maintain overhead energised LV conductors and cables	50
UTTNTD325A	Install and maintain overhead traction configurations	0	UETTDRRRT06A	Maintain overhead traction configurations	60
UTTNTD326A	Install and maintain overhead traction equipment	0	UETTDRRRT08A	Maintain overhead traction equipment and components	60
UTTNTD323A	Install and maintain overhead traction wiring systems	0	UETTDRRRT02A	Maintain overhead traction wiring systems	60
UTTNTD324A	Install and maintain traction bonding	0	UETTDRRRT04A	Maintain traction bonds	60
UTTNTD302A	Maintain towers and associated hardware	60	UETTDRTTP07A	Maintain transmission towers and associated hardware	60
	No Previous Equivalent		UETTDRSB09A	Maintain voltage regulating equipment - capacitor banks	30
	No Previous Equivalent		UETTDRSB12A	Maintain voltage regulating equipment - on load tapchangers	30
	No Previous Equivalent		UETTDRTS11A	Maintain, test and commission voltage regulating equipment	80
	No Previous Equivalent		UETTDRIIS26A	Manage an electrical supply industry OHS management system	100
	No Previous Equivalent		UETTDRSO03A	Manage critical events	140

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
	No Previous Equivalent		UETTDRDS11A	Manage electrical infrastructure projects	130
	No Previous Equivalent		UETTDRSO05A	Manage HV distribution and sub transmission network demand	140
	No Previous Equivalent		UETTDRSO02A	Manage network faults	140
	No Previous Equivalent		UETTDRSO12A	Manage transmission network demand	130
	No Previous Equivalent		UETTDRSO11A	Manage transmission networks	130
	No Previous Equivalent		UETTDRDS21A	Manage transmission, sub-transmission and zone substation design process	120
	No Previous Equivalent		UETTDRVC07A	Monitor safety compliance for vegetation work near live electrical apparatus	50
UTTNTD202A	Operate support plant and equipment	20	UETTDRREL02A	Operate plant and equipment near live electrical conductors/apparatus	40
UTTNTD327A	Operate road rail traction height access equipment	0	UETTDRRT09A	Operate road rail traction height access equipment	25
	No Previous Equivalent		UETTDRVC02A	Operate vegetation control plant, machinery and equipment near live electrical apparatus	50
	No Previous Equivalent		UETTDRDS15A	Organise and implement line and easement surveys	90
	No Previous Equivalent		UETTDRTS07A	Perform accuracy checks on instrument transformers	100
UTENES205LA	Conduct powerline switching (High Voltage Switching)	40	UETTDRIS04A	Perform high voltage field switching operation to a given schedule	40
UTTNTD310A	Conduct high voltage switching operations	0	UETTDRIS04A	Perform high voltage field switching operation to a given schedule	40
UTENES205LB	Conduct powerline switching (High voltage switching)	0	UETTDRIS04A	Perform high voltage field switching operation to a given schedule	40
UTTNTD309A	Conduct low voltage switching operations	0	UETTDRIS03A	Perform LV field switching operation to a given schedule	40
	No Previous Equivalent		UETTDRRT10A	Perform rail traction switching operations to a given schedule	40
	No Previous Equivalent		UETTDRJC05A	Perform straight through HV paper insulated to	60

Electricity Supply Industry - Transmission And Distribution raining Package UTT98			Transmission, Distribution and Rail Sector Training Package Training Package UET06		
National ID	Units of Competency Title	Hours	National ID	Units of Competency Title	Hours
				polymeric transition joints	
	No Previous Equivalent		UETTDRIS05A	Perform substation switching operation to a given schedule	40
	No Previous Equivalent		UETTDRVC03A	Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	50
UTTNTD211A	String and maintain overhead conductors and cables	40	UETTD RTP05A	Pre-tension stringing transmission overhead conductors and cables	40
	No Previous Equivalent		UETTDRDS10A	Prepare and appraise financial impact statements	130
	No Previous Equivalent		UETTDRDS09A	Prepare and manage detailed construction plans for electrical system infrastructure	90
	No Previous Equivalent		UETTDRSB08A	Reserved	0
	No Previous Equivalent		UETTDRS01A	Reserved	0
	No Previous Equivalent		UETTD RTP01A	Reserved	0
	No Previous Equivalent		UETTDREL05A	Respond to technical enquiries and requests	60
	No Previous Equivalent		UETTDRDS17A	Review asset management strategies	120
	No Previous Equivalent		UETTDRVC08A	Safe use of Elevating Work Platform (EWP) near live electrical apparatus	50
UTTNTD204A	Test and filter insulating oil	20	UETTDRIS07A	Sample, test, filter and reinstate insulating oil	20
	No Previous Equivalent		UETTD RTS05A	Test and maintain metering schemes	90
	No Previous Equivalent		UETTD RTS08A	Test, repair and calibrate protection relays and meters	100
	No Previous Equivalent		UETTD RTP08A	Transmission tower stub setting	50
	No Previous Equivalent		UETTD RTS13A	Undertake project management of substation augmentation and maintenance	140
	No Previous Equivalent		UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40

Traineeships, Apprenticeships and Pre-Apprenticeships

The following table provides a summary of the qualifications in the Transmission, Distribution and Rail Sector Training Package Training Package UET06 and the accredited traineeship, apprenticeship and pre-apprenticeship courses they will replace.

Electricity Supply Industry - Transmission And Distribution Sector Training Package UTT98				Transmission, Distribution and Rail Sector Training Package UET06		
National ID	Qualification Title	TRAINEESHIP/APPRENTICESHIP	Hours	National ID	Qualification Title	Hours
Traineeship						
UTT30101	ESI - Distribution (Powerline)	ESI DISTRIBUTION (POWERLINE) (LEVEL 3)	928	UET30206	Certificate III in ESI - Distribution	950
Apprenticeship						
There are currently no Apprenticeships in this area.						

Examples of Training Package Programs

Units of competency may be customised so that the tasks involved in demonstrating competence are designed to meet the requirements of an individual enterprise or to satisfy regulations in a particular state or territory.

Each qualification in the Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06 may be customised to meet the context in which the training is taking place. A qualification can also be customised to accommodate a learner's chosen career pathway.

The following are examples of suitable training programs for Electricity Supply Industry – Transmission, Distribution and Rail Sector Training Package UET06. The models are not intended to be prescriptive but illustrate ways that qualifications can be achieved.

UET20106 - Certificate II in ESI - Vegetation Control

Qualification Title	Certificate II in ESI - Vegetation Control
Qualification Code	UET20106
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: All Core units and A combination of Elective Units selected from Schedule 2a - Vegetation Control, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and All of any prerequisite requirements

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UETTDREL03A	Comply with environmental and incidental response procedures	40	-
UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDTRVC02A	Operate vegetation control plant, machinery and equipment near live electrical apparatus	50	-
UETTDTRVC03A	Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	50	-
UETTDTRVC07A	Monitor safety compliance for vegetation work near live electrical apparatus	50	-
Elective Units (Total sum of at least 60 weighting points)			
UETTDTRVC05A	Cut vegetation above ground outside live work zone near live electrical apparatus (platform)	45	30
UETTDTRVC08A	Safe use of Elevating Work Platform (EWP) near live electrical apparatus	50	35
Total		343	65

UET20206 - Certificate II in ESI - Transmission Line Assembly

Qualification Title	Certificate II in ESI - Transmission Line Assembly
Qualification Code	UET20206
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: <ol style="list-style-type: none"> 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 2a – Transmission Line Assembly, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UETTDREL03A	Comply with environmental and incidental response procedures	40	-
UETTDRTTP03A	Erect transmission towers	70	-
Elective Units (Total sum of at least 60 weighting points)			
UETTDRTTP04A	Erect transmission tower hardware	70	30
UETTDRTTP05A	Pre-tension stringing transmission overhead conductors and cables	40	35
Total		238	65

UET30106 - Certificate III in ESI - Transmission

Qualification Title	Certificate III in ESI - Transmission
Qualification Code	UET30106
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 3, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE003A	Solve problems in extra-low voltage single path circuits	36	-
UEENEEE004A	Solve problems in multiple path d. c. circuits	36	-
UEENEEE005A	Fix and secure equipment	18	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEE008A	Lay wiring/cablings and terminate accessories for extra-low voltage circuits	36	-
UEENEEG001A	Solve problems in electromagnetic circuits	54	-
UEENEEG002A	Solve problems in single and three phase low voltage circuits	72	-
UETTDREL01A	Apply environmental and sustainable energy procedures	40	-
UETTDREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDNIS12A	Install and maintain poles/structures and associated hardware	60	-
UETTDRT06A	Erect transmission towers and associated hardware	60	-
UETTDRT07A	Maintain transmission towers and associated hardware	60	-
UETTDRT09A	Install and maintain overhead conductors and cables (towers)	60	-
UETTDRT10A	Inspect overhead structures and electrical apparatus (towers)	60	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDNDP01A	Inspect overhead structures and electrical apparatus (poles /structures)	40	90
UETTDNIS05A	Perform substation switching operation to a given schedule	40	80
UETTDNIS14A	Install and maintain overhead conductors and cables (poles and structures)	50	100
UETTDNRT09A	Operate road rail traction height access equipment	25	40
UETTDNRT10A	Perform rail traction switching operations to a given schedule	40	80
Total		957	390

UET30206 - Certificate III in ESI - Distribution

Qualification Title	Certificate III in ESI - Distribution
Qualification Code	UET30206
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for all the Core Units, and a combination of Elective Units selected from Schedule 3 - Certificate III Units, where the sum of the weighting value is at least 360 points.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE003A	Solve problems in extra-low voltage single path circuits	36	-
UEENEEE004A	Solve problems in multiple path d.c. circuits	36	-
UEENEEE005A	Fix and secure equipment	18	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEE008A	Lay wiring/cablings and terminate accessories for extra-low voltage circuits	36	-
UEENEEO001A	Solve problems in electromagnetic circuits	54	-
UEENEEO002A	Solve problems in single and three phase low voltage circuits	72	-
UETTDRDP01A	Inspect overhead structures and electrical apparatus (poles /structures)	40	-
UETTDRDP02A	Maintain overhead energised LV conductors and cables	50	-
UETTDRREL01A	Apply environmental and sustainable energy procedures	40	-
UETTDRREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDRREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDRIS01A	Install electrical equipment (network infrastructure)	50	-
UETTDRIS02A	Maintain electrical equipment (network infrastructure)	50	-
UETTDRIS12A	Install and maintain poles/structures and associated hardware	60	-
UETTDRIS14A	Install and maintain overhead conductors and cables (poles and structures)	50	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDRIS03A	Perform LV field switching operation to a given schedule	40	80
UETTDRIS15A	Install and maintain low voltage services (underground)	40	80
UETTDRIS18A	Locate faults in underground power cables	50	110
UETTDRIS19A	Conduct high potential testing of underground power cables	50	90
Total		942	360

UET30306 - Certificate III in ESI - Rail Traction

Qualification Title	Certificate III in ESI - Rail Traction
Qualification Code	UET30306
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: <ol style="list-style-type: none"> 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 3- Certificate III Units, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE003A	Solve problems in extra-low voltage single path circuits	36	-
UEENEEE004A	Solve problems in multiple path d.c. circuits	36	-
UEENEEE005A	Fix and secure equipment	18	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEE008A	Lay wiring/cablings and terminate accessories for extra-low voltage circuits	36	-
UEENEEG001A	Solve problems in electromagnetic circuits	54	-
UEENEEG002A	Solve problems in single and three phase low voltage circuits	72	-
UETTDREL01A	Apply environmental and sustainable energy procedures	40	-
UETTDREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDNIS12A	Install and maintain poles/structures and associated hardware	60	-
UETTDNIS14A	Install and maintain overhead conductors and cables (poles and structures)	50	-
UETTDNRT01A	Install overhead traction wiring systems	60	-
UETTDNRT02A	Maintain overhead traction wiring systems	60	-
UETTDNRT07A	Install overhead traction equipment and components	60	-
UETTDNRT08A	Maintain overhead traction equipment and components	60	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDNDP01A	Inspect overhead structures and electrical apparatus (poles /structures)	40	90
UETTDNIS05A	Perform substation switching operation to a given schedule	40	80
UETTDNDP02A	Maintain overhead energised LV conductors and cables	50	100
UETTDNRT09A	Operate road rail traction height access equipment	25	40
UETTDNRT10A	Perform rail traction switching operations to a given schedule	40	80
Total		1007	390

UET30406 - Certificate III in ESI - Cable Jointing

Qualification Title	Certificate III in ESI - Cable Jointing
Qualification Code	UET30406
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for all the Core Units, and a combination of Elective units selected from Schedule 3 - Certificate III Units, where the sum of the weighting value is in accord with that assigned to this qualification and quantified and all of any pre-requisite requirements

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UEENEEE001A	Apply OHS practices in the work place	18	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE003A	Solve problems in extra-low voltage single path circuits	36	-
UEENEEE004A	Solve problems in multiple path d.c. circuits	36	-
UEENEEE005A	Fix and secure equipment	18	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEE008A	Lay wiring/cablings and terminate accessories for extra-low voltage circuits	36	-
UEENEEG001A	Solve problems in electromagnetic circuits	54	-
UEENEEG002A	Solve problems in single and three phase low voltage circuits	72	-
UETTDRCJ01A	Lay electrical cables	20	-
UETTDRCJ07A	Install and maintain de-energised HV underground polymeric cables	60	-
UETTDREL01A	Apply environmental and sustainable energy procedures	40	-
UETTDREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDRLS01A	Install electrical equipment (network infrastructure)	50	-
UETTDRLS02A	Maintain electrical equipment (network infrastructure)	50	-
Elective Units (Total sum of at least 450 weighting points)			
UETTDRCJ01A	Lay electrical cables	20	30
UETTDRCJ04A	Joint and maintain energised LV underground paper insulated cables	60	100
UETTDRCJ08A	Joint and maintain energised LV underground polymeric cables	60	90
UETTDRLS18A	Locate faults in underground power cables	50	110
UETTDRLS19A	Conduct high potential testing of underground power cables	50	90
Total		882	420

UET40106 - Certificate IV in ESI - Power Systems

Qualification Title	Certificate IV in ESI - Power Systems
Qualification Code	UET40106
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: <ol style="list-style-type: none"> 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 4a – Power Systems, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UETTDNIS22A	Implement and monitor the organisational OHS policies, procedures and programs	40	-
UETTDNIS23A	Implement and monitor environmental and sustainable energy management policies and procedures	60	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDNDS01A	Draft and layout an overhead distribution extension	60	110
UETTDNDS02A	Draft and layout an underground distribution extension	60	110
UETTDNDS03A	Draft and layout a street lighting system	60	110
UETTDNDS04A	Draft and layout a distribution substation minor upgrade	60	120
Total		340	450

UET40206 - Certificate IV in ESI - Substation

Qualification Title	Certificate IV in ESI - Substation
Qualification Code	UET40206
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for:1. All the Core Units, and2. A combination of Elective Units selected from Schedule 4b - Substations, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and3. All of any prerequisite requirements including the successful completion of CIII in Electro technology – System Electrician or equivalent..

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UETTDRIS05A	Perform substation switching operation to a given schedule	40	-
UETTDRIS22A	Implement and monitor the organisational OHS policies, procedures and programs	40	-
UETTDRIS23A	Implement and monitor environmental and sustainable energy management policies and procedures	60	-
UETTDRSB01A	Diagnose and rectify faults in power system substation environment	20	-
UETTDRSB02A	Carry out substation inspection	20	-
UETTDRSB03A	Install and maintain substation DC systems	20	-
UETTDRSB04A	Maintain HV power system breakers	20	-
UETTDRSB05A	Maintain HV power system transformers and instrument transformers	20	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDRSB09A	Maintain voltage regulating equipment - capacitor banks	30	110
UETTDRSB10A	Maintain HV power system static VAR compensators	30	110
UETTDRSB11A	Maintain HV power system synchronous condensers	30	110
UETTDRSB12A	Maintain voltage regulating equipment - on load tapchangers	30	110
Total		360	440

UET40306 - Certificate IV in ESI - Network Infrastructure

Qualification Title	Certificate IV in ESI - Network Infrastructure
Qualification Code	UET40306
Qualification Packaging Rules	<p>The requirements for granting this qualification will be met when competency is demonstrated and achieved for:</p> <ol style="list-style-type: none"> 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 4c, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements including the successful completion of CIII in Electro technology – System Electrician or equivalent.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
UETTDREL01A	Apply environmental and sustainable energy procedures	40	-
UETTDREL02A	Operate plant and equipment near live electrical conductors/apparatus	40	-
UETTDREL04A	Working safely near live electrical apparatus as non electrical worker	40	-
UETTDNIS22A	Implement and monitor the organisational OHS policies, procedures and programs	40	-
UETTDNIS23A	Implement and monitor environmental and sustainable energy management policies and procedures	60	-
Elective Units (Total sum of at least 360 weighting points)			
UETTDRCJ13A	Install and maintain network infrastructure LV underground cables	40	120
UETTDRCJ14A	Install and maintain network infrastructure HV underground cables	50	130
UETTDRTTP15A	Install and maintain transmission network infrastructure electrical equipment	40	130
Total		350	380

UET50106 - Diploma of ESI - Power Systems

Qualification Title	Diploma of ESI - Power Systems
Qualification Code	UET50106
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 5 - Diploma, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
BSBMGT507A	Manage environmental performance	40	-
UEENEED002	Assemble, set up and test personal computers	72	-
UEENEED004A	Use engineering applications software	54	-
UEENEED027A	Develop structured programs for control sub systems to access external devices	54	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEO001A	Solve problems in electromagnetic circuits	54	-
UEENEEO002A	Solve problems in single and three phase low voltage circuits	72	-
UEENEEO047A	Provide computational solutions to power engineering problems	54	-
UEENEEO048A	Solve problems in complex multiple path power circuits	54	-
UEENEEO049A	Solve problems in complex polyphase power circuits	54	-
UEENEEO011A	Solve problems in d.c. power supplies with single phase input	36	-
UEENEEO012A	Solve problems in digital components of electronic apparatus	72	-
UEENEEO039A	Solve problems in basic amplifier circuits	36	-
UEENEEO070A	Terminate and connect components, conductors, wiring and cables for electronic circuits	36	-
UETTDRIS26A	Manage an electrical supply industry OHS management system	100	-
Elective Units (Total sum of at least 720 weighting points)			
UETTDRSO06A	Develop LV distribution switching programs	100	150
UETTDRSO07A	Develop HV distribution and sub transmission switching programs	100	150
UETTDRSO08A	Develop and evaluate transmission switching programs	100	150
UETTDRSO09A	Coordinate LV distribution networks	100	150
UETTDRSO10A	Coordinate HV distribution and sub transmission networks	100	150
Total		1360	750

UET60106 - Advanced Diploma of ESI - Power Systems

Qualification Title	Advanced Diploma of ESI - Power Systems
Qualification Code	UET60106
Qualification Packaging Rules	The requirements for granting this qualification will be met when competency is demonstrated and achieved for: <ol style="list-style-type: none"> 1. All the Core Units, and 2. A combination of Elective Units selected from Schedule 6 – Advanced Diploma, where the sum of the weighting value is in accord with that assigned to this qualification and quantified below, and 3. All of any prerequisite requirements.

Unit Code	Unit Title	Nominal Hours	Points
Core Units			
BSBMGT507A	Manage environmental performance	40	-
UEENEED002	Assemble, set up and test personal computers	72	-
UEENEED004A	Use engineering applications software	54	-
UEENEED017A	Install and configure Internetworking systems	108	-
UEENEED027A	Develop structured programs for control sub systems to access external devices	54	-
UEENEED028A	Develop and test basic specification for micro-controller equipped devices	54	-
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components	36	-
UEENEEE007A	Use drawings, diagrams, schedules and manuals	36	-
UEENEEO001A	Solve problems in electromagnetic circuits	54	-
UEENEEO002A	Solve problems in single and three phase low voltage circuits	72	-
UEENEEO047A	Provide computational solutions to power engineering problems	54	-
UEENEEO048A	Solve problems in complex multiple path power circuits	54	-
UEENEEO049A	Solve problems in complex polyphase power circuits	54	-
UEENEEO011A	Solve problems in d.c. power supplies with single phase input	36	-
UEENEEO012A	Solve problems in digital components of electronic apparatus	72	-
UEENEEO039A	Solve problems in basic amplifier circuits	36	-
UEENEEO070A	Terminate and connect components, conductors, wiring and cables for electronic circuits	36	-
UETTDRIS26A	Manage an electrical supply industry OHS management system	100	-
Elective Units (Total sum of at least 1400 weighting points)			
UETTDREL05A	Respond to technical enquiries and requests	60	90
UETTDRSO02A	Manage network faults	140	220
UETTDRSO03A	Manage critical events	140	220
UETTDRSO04A	Control generating plant	120	180
UETTDRSO07A	Develop HV distribution and sub transmission switching programs	100	150
UETTDRSO11A	Manage transmission networks	130	200
UETTDRSO12A	Manage transmission network demand	130	200
UETTDRSO14A	Develop crisis management plans	100	180
Total		1942	1440