

**UET12 ESI –
TRANSMISSION,
DISTRIBUTION AND RAIL
SECTOR
TRAINING PACKAGE**

Version 2.1

WA NOMINAL HOURS GUIDE

**Western Australian Department of Training and Workforce
Development**

November 2014

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Introduction

This Implementation Guide has been generated to enable the stakeholders in the ESI-Transmission, Distribution and Rail Industry in Western Australia to participate in the managed implementation of **version 2** of the UET12 ESI-Transmission, Distribution and Rail Sector Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the **endorsed components** of the Training Package

Version 2 of the UET12 ESI - Transmission, Distribution and Rail Sector Training Package was released by Training.Gov.Au (TGA) on the **14 March 2013**.

Obtaining the Training Package

The UET12 ESI-Transmission, Distribution and Rail Sector Training Package can be purchased from:



Office: Unit 2, 48 Mort Street
Braddon ACT 2612
Postal: PO Box 1202
Dickson ACT 2602
T: (02) 6154 5180 | F: (02) 9257 4222
E: ee-oz@ee-oz.com.au
W: www.ee-oz.com.au

Information on National Training Packages is also available through Training.Gov (TGA), which can be located on the Internet at: www.training.gov.au

All RTOs who have Training Package qualifications on their Scope of Delivery must have access to the relevant Training Package.

Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications within 12 months of the release date of the Training Package on to Training.gov.au (TGA).

Students currently enrolled in an existing version of the Training Package qualification 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.

Nominal Hours

The Commonwealth Department of Employment, Education and Workplace Relations' definition of nominal hours states:

“The value assigned to a structured program of study that nominally represents the anticipated hours of supervised learning and/or training deemed necessary to conduct training/learning and assessment activities associated with the program of study”

Source: National Quality Council Training Package Glossary Version V2.1
17/03/2010

<http://www.deewr.gov.au/Skills/Overview/Policy/TPDH/Downloads/Documents/TrainingPackGlossary.pdf>

Nominal hours are identified for each Training Package qualification. Total nominal hours may vary within a qualification depending on the units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

Licensing Requirements

It is a requirement that Training Package Developers consider licensing/registration requirements in the development of the respective Industry Training Package. Generally licensing/registration requirements will be incorporated in relevant Competency Standard Units/qualifications.

Where licensing/registration apply, RTOs are to ensure that assessment against relevant Competency Standard Units is consistent with regulated requirements. Evidence of achievement should be gathered and recorded in such a way as to allow RTOs to report on such achievement that is consistent with regulated requirements.

The latest information on licensing/registration requirements may be obtained by visiting the Industry Skills Council/Training Package Developer's website. In the case of this Training Package it is EE-Oz Training Standards. Refer to the following website for more information: www.ee-oz.com.au

RTOs, are responsible for the implementation of the quality assurance arrangements included in these guidelines. However, where competency development occurs in regulated/licensed areas RTOs are to incorporate any additionally and prevailing regulatory authority requirements typically called up in these Guidelines into their quality assurance arrangements.

In some instances, in order to conduct assessments for statutory licensing or other industry registration requirements, assessors must also meet any additional requirements that may also be established by the regulatory body/agency. Respective regulators should be contacted directly to obtain information in this regard.

Requirements for Assessors

In order to conduct assessment for statutory licensing or other industry registration requirements assessors must meet the requirements established by regulatory agencies and respective nominees, in addition to the AQTF requirements. Assessors are to liaise with respective agencies to ensure respective requirements are followed and met.

Requirements for RTOs

Selected Competency Standard Units and qualifications in this Training Package provide the basis for a range of statutory licensing and industry registration arrangements. To satisfy these licensing and registration arrangements, RTOs are to keep abreast of developments and any additional requirements detailed by such bodies and their respective nominees. RTOs and their assessors are therefore required to liaise with the Training Package developer and respective agencies to ensure requirements are known and met.

Requirements for Candidates

Individuals being assessed under statutory licensing and industry registration systems may be required to comply with training and experience requirements additional to any minimum requirements identified in this Training Package. These additional requirements are to be formally advised by the RTOs to individuals prior to the delivery of the Training Package outcomes.

Version Modification History

The version details of this endorsed Training Package are in the table below.
The latest information is at the top of the table.

Version	Release Date	Modification History
2.1	5 November 2014	<p>ISC Upgrade</p> <p>Qualifications Updated: UET20412; UET20512; UET20612; UET30512; UET30612; UET30712; UET30812;; UET50312; UET60312.</p> <p>Units Updated: UETTDRRF03B; UETTDRRF04B; UETTDRRF05B; UETTDRRF06B; UETTDRRF07B; UETTDRRF10B; UETTDRSB39A; UETTDRSO32A; UETTDRSO33A; UETTDRSO44A; UETTDRSO50A; UETTDRSO51A;.</p> <p>Skill Sets Updated: UETSS00020; UETSS00021; UETSS00022; UETSS00024; UETSS00025; UETSS00026; UETSS00027; UETSS00028; UETSS00029; UETSS00030; UETSS00031; UETSS00032; UETSS00033; UETSS00034.</p>
2	14 March 2013	<p>New Qualifications UET50312; UET60312.</p> <p>Qualifications Updated: UET20412; UET20512; UET20612; UET30512; UET30612; UET30712; UET30812; UET30912; UET40412; UET40512; UET40612; UET50212; UET60212;</p> <p>Editorial Amendments:</p> <p>Units Updated: UETTFRIS32A; UETTDRIS33A; UETTDRIS49A; UETTDRDP99A; UETTDREL18A; UETTDREL19A; UETTDREL20A; UETTDREL21A;</p> <p>Imported Units Updated UEENEED101A; CPCCCM2007B; HLTCP211A; HLTFA311A; UEENEED104A; UEENEED117A; UEENEEE102A;</p> <p>Correct core and elective weightings: UEE30712; UET30812</p> <p>Correct imported unit name: UEENEED101A; UEENEED104A; UEENEED117A; UEENEEE102A; UEENEEK116A.</p> <p>Include full pre-requisite chain: UETTDRIS32A; UETTDRIS33A; UETTDRIS49A.</p> <p>Skill sets amended: All skill sets in the package have had their requirements mapped. Added requirement to hold and be current in HLTCP211A in: UET12 Refresher - Perform EWP Rescue and CPR; UET12 Refresher - Perform Pole Top Rescue and CPR</p>
1	1 May 2012	<p>The following qualifications were added: UET20312; UET20412; UET20612; UET30512; UET30612; UET30712; UET30812; UET30912; UET40412; UET40512; UET40612; UET50212; UET60212</p> <p>The following qualifications were replaced: UET20110; UET20209; UET30109; UET30209; UET30309; UET30409; UET40109; UET40209; UET40309; UET50109; UET60109</p> <p>The following qualifications were amended: UET20511</p>

Version	Release Date	Modification History
Version 1 Cont..		<p>The following new units were added: UETTDRCJ21A; UETTDRCJ22A; UETTDRCJ23A; UETTDRCJ24A; UETTDRCJ25A; UETTDRCJ26A; UETTDRCJ27A; UETTDRCJ28A; UETTDRCJ29A; UETTDRCJ30A; UETTDRCJ31A; UETTDRCJ32A; UETTDRCJ33A; UETTDRCJ34A; UETTDRCJ99A; UETTDROP11A; UETTDROP12A; UETTDROP13A; UETTDROP14A; UETTDROP15A; UETTDROP99A; UETTDORS31A; UETTDORS32A; UETTDORS33A; UETTDORS34A; UETTDORS35A; UETTDORS36A; UETTDORS37A; UETTDORS38A; UETTDORS39A; UETTDORS40A; UETTDORS41A; UETTDORS42A; UETTDORS43A; UETTDORS44A; UETTDORS45A; UETTDORS46A; UETTDORS47A; UETTDORS48A; UETTDORS49A; UETTDORS50A; UETTDORS51A; UETTDORS52A; UETTDORS53A; UETTDORS54A; UETTDORS55A; UETTDORS56A; UETTDORS57A; UETTDORS58A; UETTDREL11A; UETTDREL12A; UETTDREL13A; UETTDREL14A; UETTDREL15A; UETTDREL16A; UETTDREL17A; UETTDREL18A; UETTDREL19A; UETTDREL20A; UETTDREL21A; UETTDORS32A; UETTDORS33A; UETTDORS34A; UETTDORS35A; UETTDORS36A; UETTDORS37A; UETTDORS38A; UETTDORS41A; UETTDORS42A; UETTDORS43A; UETTDORS44A; UETTDORS45A; UETTDORS46A; UETTDORS47A; UETTDORS48A; UETTDORS49A; UETTDORS50A; UETTDORS51A; UETTDORS52A; UETTDORS53A; UETTDORS54A; UETTDORS55A; UETTDORS56A; UETTDORS57A; UETTDORS58A; UETTDORS59A; UETTDORS60A; UETTDORS61A; UETTDORS62A; UETTDORS63A; UETTDORS64A; UETTDORS65A; UETTDORS66A; UETTDORS67A; UETTDORS68A; UETTDORS69A; UETTDORS70A; UETTDORS71A; UETTDORS72A; UETTDORS73A; UETTDORS74A; UETTDORS81A; UETTDORS99A; UETTDORRF11A; UETTDORRT21A; UETTDORRT22A; UETTDORRT23A; UETTDORRT24A; UETTDORRT25A; UETTDORRT26A; UETTDORRT27A; UETTDORRT28A; UETTDORRT29A; UETTDORRT30A; UETTDORRT31A; UETTDORRT32A; UETTDORRT33A; UETTDORRT34A; UETTDORRT35A; UETTDORRT36A; UETTDORRT37A; UETTDORRT99A; UETTDORSB21A; UETTDORSB22A; UETTDORSB23A; UETTDORSB24A; UETTDORSB25A; UETTDORSB26A; UETTDORSB27A; UETTDORSB29A; UETTDORSB30A; UETTDORSB31A; UETTDORSB32A; UETTDORSB33A; UETTDORSB34A; UETTDORSB35A; UETTDORSB36A; UETTDORSB37A; UETTDORSB38A; UETTDORSB39A; UETTDORSO32A; UETTDORSO33A; UETTDORSO34A; UETTDORSO35A; UETTDORSO36A; UETTDORSO37A; UETTDORSO38A; UETTDORSO39A; UETTDORSO40A; UETTDORSO41A; UETTDORSO42A; UETTDORSO43A; UETTDORSO44A; UETTDORSO45A; UETTDORSO46A; UETTDORSO47A; UETTDORSO48A; UETTDORSO49A; UETTDORSO50A; UETTDORSO51A; UETTDORTP22A; UETTDORTP23A; UETTDORTP24A; UETTDORTP25A; UETTDORTP26A; UETTDORTP27A; UETTDORTP28A; UETTDORTP29A; UETTDORTP30A; UETTDORTP31A; UETTDORTP32A; UETTDORTP33A; UETTDORTP34A; UETTDORTP35A; UETTDORTP99A; UETTDORTS21A; UETTDORTS22A; UETTDORTS23A; UETTDORTS24A; UETTDORTS25A; UETTDORTS26A; UETTDORTS27A; UETTDORTS28A; UETTDORTS29A; UETTDORTS30A; UETTDORTS31A; UETTDORTS32A; UETTDORTS33A; UETTDORTS34A; UETTDORTS35A; UETTDORTS36A; UETTDORTS37A; UETTDORTS38A; UETTDORVC21A; UETTDORVC23A; UETTDORVC24A; UETTDORVC25A; UETTDORVC26A; UETTDORVC27A; UETTDORVC29A; UETTDORVC30A; UETTDORVC31A; UETTDORVC32A; UETTDORVC33A; UETTDORVC34A</p> <p>The following units were replaced: UETTDRCJ01B; UETTDRCJ02B; UETTDRCJ03B; UETTDRCJ04B; UETTDRCJ05B; UETTDRCJ06B; UETTDRCJ07B; UETTDRCJ08B; UETTDRCJ09B; UETTDRCJ10B; UETTDRCJ11B; UETTDRCJ12B; UETTDRCJ13B; UETTDRCJ14B; UETTDROP01B; UETTDROP02B; UETTDROP03B; UETTDROP04B; UETTDROP05B; UETTDORS01B; UETTDORS02B; UETTDORS03B; UETTDORS04B; UETTDORS05B;</p>

Version	Release Date	Modification History
Version 1 Cont...		<p>UETTDARDS06B; UETTDARDS07B; UETTDARDS08B; UETTDARDS09B; UETTDARDS10B; UETTDARDS11B; UETTDARDS12B; UETTDARDS13B; UETTDARDS14B; UETTDARDS15B; UETTDARDS16B; UETTDARDS17B; UETTDARDS18B; UETTDARDS19B; UETTDARDS20B; UETTDARDS21B; UETTDARDS22B; UETTDARDS23B; UETTDARDS24B; UETTDARDS25B; UETTDARDS26B; UETTDARDS27B; UETTDARDS28B; UETTDREL01B; UETTDREL02B; UETTDREL03B; UETTDREL04B; UETTDREL05B; UETTDRLS01B; UETTDRLS02B; UETTDRLS03B; UETTDRLS04B; UETTDRLS27B; UETTDRLS06B; UETTDRLS07B; UETTDRLS08B; UETTDRLS09B; UETTDRLS10B; UETTDRLS11B; UETTDRLS12B; UETTDRLS13B; UETTDRLS14B; UETTDRLS15B; UETTDRLS16B; UETTDRLS17B; UETTDRLS18B; UETTDRLS19B; UETTDRLS20B; UETTDRLS21B; UETTDRLS22B; UETTDRLS23B; UETTDRLS24B; UETTDRLS25B; UETTDRLS26B; UETTDRLF01A; UETTDRLF02A; UETTDRLF03A; UETTDRLF04A; UETTDRLF05A; UETTDRLF06A; UETTDRLF07A; UETTDRLF08A; UETTDRLF09A; UETTDRLF10A; UETTDRLT01B; UETTDRLT02B; UETTDRLT03B; UETTDRLT04B; UETTDRLT05B; UETTDRLT06B; UETTDRLT07B; UETTDRLT08B; UETTDRLT09B; UETTDRLT10B; UETTDRLT11B; UETTDRLT12B; UETTDRLT13B; UETTDRLT14B; UETTDRLT15B; UETTDRSB01B; UETTDRSB02B; UETTDRSB03B; UETTDRSB04B; UETTDRSB05B; UETTDRSB06B; UETTDRSB07B; UETTDRSB09B; UETTDRSB10B; UETTDRSB11B; UETTDRSB12B; UETTDRSB13B; UETTDRSB14B; UETTDRSB15B; UETTDRSB16B; UETTDRSB17B; UETTDRSB18B; UETTDRSO02B; UETTDRSO03B; UETTDRSO04B; UETTDRSO05B; UETTDRSO06B; UETTDRSO07B; UETTDRSO08B; UETTDRSO09B; UETTDRSO10B; UETTDRSO11B; UETTDRSO12B; UETTDRSO13B; UETTDRSO14B; UETTDRSO15A; UETTDRSO16A; UETTDRSO17A; UETTDRSO18A; UETTDRSO19A; UETTDRSO20A; UETTDRSO21A; UETTDRTTP02B; UETTDRTTP03B; UETTDRTTP04B; UETTDRTTP05B; UETTDRTTP06B; UETTDRTTP07B; UETTDRTTP08B; UETTDRTTP09B; UETTDRTTP10B; UETTDRTTP11B; UETTDRTTP12B; UETTDRTTP13B; UETTDRTTP14B; UETTDRTTP15B; UETTDRTS01B; UETTDRTS02B; UETTDRTS03B; UETTDRTS04B; UETTDRTS05B; UETTDRTS06B; UETTDRTS07B; UETTDRTS08B; UETTDRTS09B; UETTDRTS10B; UETTDRTS11B; UETTDRTS12B; UETTDRTS13B; UETTDRTS14B; UETTDRTS15B; UETTDRTS16B; UETTDTRVC01B; UETTDTRVC02B; UETTDTRVC03B; UETTDTRVC04B; UETTDTRVC05B; UETTDTRVC06B; UETTDTRVC07B; UETTDTRVC08B; UETTDTRVC09B; UETTDTRVC10B UETTDRLF01B; UETTDRLF02B; UETTDRLF03B; UETTDRLF04B; UETTDRLF05B; UETTDRLF06B; UETTDRLF07B; UETTDRLF08B; UETTDRLF09B; UETTDRLF10B</p> <p>The following imported units were added to UET12 Version 1: AHCARB202A; AHCARB204A; AHCARB205A; AHCCHM201A; AHCMMOM304A; AHCPCM201A; BSBINM401A; BSBMGT402A; BSBMGT403A; BSBWOR401A; BSBWOR402A; BSBUS501A; BSBFIM501A; BSBINM501A; BSBINN502A; BSBLED501A; BSBMGT502B; BSBMGT515A; BSBMGT516A; BSBSUS501A; BSBWOR501A; BSBWOR502A; CPCCCM2007A; CPCCLDG3001A; CPCCLHS3001A; CPCCLHS3002A; CPCCLRG3001A; CPCCLRG3002A; CPCCLSF2001A; CPCCLSF3001A; CPCCOHS1001A; HLTFA301B; ICTCBL2065A; ICTCBL2068A; MEM16012A; MEM17003A; NWP218B; NWP261A; RIIOHS202A; RIIOHS204A ; RIIOHS205A; TLIC3003A; TLIC3004A; TLID3035A; TLILIC2001A; TLILIC4011A; TLILIC0012A; TLILIC3003A; TLILIC2005A; TLILIC3008A; TLILIC4009A; UEENEEC101A; UEENEEC108A; UEENEEC110A; UEENEEED101A; UEENEEED104A; UEENEEED117A; UEENEEEEE083A; UEENEEEEE101A; UEENEEEEE102A; UEENEEEEE103A; UEENEEEEE104A; UEENEEEEE105A; UEENEEEEE107A; UEENEEEEE108A; UEENEEEEE124A; UEENEEEEE125A; UEENEEEEE126A; UEENEEEEE137A; UEENEEEEE151A; UEENEEEF106A; UEENEEEF107A;</p>

Version	Release Date	Modification History
Version 1 Cont...		<p>UEENEEG006A; UEENEEG033A; UEENEEG063A; UEENEEG076A; UEENEEG101A; UEENEEG102A; UEENEEG103A; UEENEEG104A; UEENEEG105A; UEENEEG106A; UEENEEG107A; UEENEEG108A; UEENEEG109A; UEENEEG149A; UEENEEG171A; UEENEEH102A; UEENEEH112A; UEENEEH139A; UEENEEI155A; UEENEEI155A; UEENEEK101A; UEENEEK102A; UEENEEK103A; UEENEEK104A; UEENEEK105A; UEENEEK106A; UEENEEK116A ; UEENEEK120A ; UEENEEK142A; UEENEEP024A; UEENEEP026A;</p> <p>The following imported units were removed from UET12 Version 1: BSBFLM303B; BSBFLM305B; BSBFLM306B; BSBFLM309B; BSBFLM311B; BSBFLM312A; BSBFLM403B; BSBFLM405B; BSBFLM406B; BSBFLM409B; BSBFLM412A; BSBFLM501B; BSBFLM503B; BSBFLM505B; BSBFLM506B; BSBFLM507A; BSBFLM509B; BSBFLM510B; BSBFLM511B; BSBFLM512B; BSBFLM513A; BSBFLM514A; BSBMGT507A; ICTTC013C; ICTTC064C ; ICTTC065C; ICTTC066C; ICTTC068C; ICTTC069C; ICTTC104C; ICTTC127C; ICTTC131B; ICTTC133B; ICTTC134B; ICTTC135B; UEENEEG002B; UEENEEG007B; UEENEEG001B; UEENEEG002B; UEENEEG047B; UEENEEG048B; UEENEEG049B; UEENEEH011B</p>

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in **Version 2** of the UET12 ESI-Transmission, Distribution and Rail Sector Training Package

Note: the new qualifications in Version 2 are highlighted in red

National ID	Qualification Title	Hours
UET20312	Certificate II in ESI - Powerline Vegetation Control	341
UET20412	Certificate II in Transmission Structure and Line Assembly	324
UET20511	Certificate II in National Broadband Network Cabling	324
UET20612	Certificate II in ESI - Asset Inspection	324
UET30512	Certificate III in ESI - Power Systems - Transmission Overhead	1070
UET30612	Certificate III in ESI - Power Systems - Distribution Overhead	1018
UET30712	Certificate III in ESI - Power Systems - Rail Traction	1027
UET30812	Certificate III in ESI - Power Systems - Distribution Cable Jointing	1043
UET30912	Certificate III in ESI - Remote Community Utilities Worker	990
UET40412	Certificate IV in ESI - Network Systems	1208
UET40512	Certificate IV in ESI - Power Systems Substations	1206
UET40612	Certificate IV in ESI - Power Systems Network Infrastructure	1206
UET50212	Diploma of ESI - Power Systems	1440
UET50312	Diploma of ESI - Power Systems Operations	1440
UET60212	Advanced Diploma of ESI - Power Systems Operations	1944
UET60312	Advanced Diploma of ESI - Power Systems Operations	1854

Units of Competency, Nominal Hours and Weighting Points

The following table provides a summary of the units of competency, nominal hours and weighting points in **version 2** of the UET12 ESI-Transmission, Distribution and Rail Sector Training Package

Note: the new units in Version 2 are highlighted in red

National ID	Unit Title	Nominal Hours	WPs
UETTDRCJ21A	Lay ESI electrical cables	18	20
UETTDRCJ22A	Install and maintain de-energised low voltage underground paper insulated cables	36	40
UETTDRCJ23A	Install and maintain de-energised high voltage underground paper insulated cables	54	60
UETTDRCJ24A	Joint and maintain energised low voltage underground paper insulated cables	54	60
UETTDRCJ25A	Perform straight through high voltage paper insulated to polymeric transition joint	45	50
UETTDRCJ26A	Install and maintain de-energised low voltage underground polymeric cables	45	50
UETTDRCJ27A	Install and maintain de-energised high voltage underground polymeric cables	45	50
UETTDRCJ28A	Joint and maintain energised low voltage underground polymeric cables	45	50
UETTDRCJ29A	Install gas and oil filled specialised underground cables	54	60
UETTDRCJ30A	Maintain gas and oil filled specialised underground cables	54	60
UETTDRCJ31A	Install and maintain polymeric specialised underground cables	58	65
UETTDRCJ32A	Install and maintain gas and oil pressure systems for specialised underground cables	58	65
UETTDRCJ33A	Install and maintain network infrastructure LV underground cables	36	40
UETTDRCJ34A	Install and maintain network infrastructure HV underground cables	45	50
UETTDRCJ99A	Test and verify distribution cable jointing installations	36	40
UETTDNDP11A	Inspect overhead poles-structures and electrical apparatus	45	50
UETTDNDP12A	Maintain overhead energised low voltage conductors and cables	54	60
UETTDNDP13A	Maintain energised HV distribution overhead electrical apparatus (stick)	63	70
UETTDNDP14A	Maintain energised HV distribution overhead electrical apparatus (glove)	63	70
UETTDNDP15A	Inspect, maintain and restore energised low voltage overhead distribution network infrastructure	45	50
UETTDNDP99A	Test and verify distribution overhead installations	36	36
UETTDNDS31A	Draft and layout a power system overhead distribution extension	54	60
UETTDNDS32A	Draft and layout a power system underground distribution extension	54	60
UETTDNDS33A	Draft and layout a power system street lighting system	54	60
UETTDNDS34A	Draft and layout a power system distribution substation minor upgrade	54	60
UETTDNDS35A	Design overhead distribution power systems	126	140
UETTDNDS36A	Design underground distribution power systems	126	140
UETTDNDS37A	Design power system distribution substations	126	140
UETTDNDS38A	Design power system public lighting systems	126	140
UETTDNDS39A	Prepare and manage detailed construction plans for electrical power system infrastructure	126	140
UETTDNDS40A	Prepare and appraise power systems financial impact statements	144	160

National ID	Unit Title	Nominal Hours	WPs
UETTD RDS41A	Manage electrical power systems infrastructure projects	144	160
UETTD RDS42A	Investigate quality of power systems supply issues	126	140
UETTD RDS43A	Develop high voltage and low voltage distribution protection systems	135	150
UETTD RDS44A	Design power system substations modifications	135	150
UETTD RDS45A	Organise and implement ESI line and easement surveys	126	140
UETTD RDS46A	Develop planned power systems outage strategies	126	140
UETTD RDS47A	Review power system asset management strategies	135	150
UETTD RDS48A	Analyse and appraise power system fault and outage data	135	150
UETTD RDS49A	Establish and manage power system geographical information systems data	126	140
UETTD RDS50A	Design customer power system substations	126	140
UETTD RDS51A	Manage power system transmission and sub-transmission design process	135	150
UETTD RDS52A	Design power system transmission, sub-transmission and zone substation buildings	144	160
UETTD RDS53A	Design power system transmission and sub-transmission substation primary plant	162	180
UETTD RDS54A	Design power system transmission and sub-transmission protection and control	162	180
UETTD RDS55A	Design power system transmission and sub-transmission substation earthing	162	180
UETTD RDS56A	Design power system transmission, sub-transmission and zone substation civil and structural components	162	180
UETTD RDS57A	Design power system overhead transmission systems	162	180
UETTD RDS58A	Design underground transmission systems	162	180
UETTD REL11A	Apply sustainable energy and environmental procedures	18	20
UETTD REL12A	Operate plant and equipment near live electrical conductors and apparatus	36	40
UETTD REL13A	Comply with sustainability, environmental and incidental response policies and procedures	36	40
UETTD REL14A	Working safely near live electrical apparatus as a non-electrical worker	36	40
UETTD REL15A	Respond to power systems technical enquiries and requests	36	40
UETTD REL16A	Working safely near live electrical apparatus	18	20
UETTD REL17A	Operate asset inspection machinery and equipment near live electrical apparatus	36	40
UETTD REL18A	Inspect and treat poles and inspect electrical apparatus	36	40
UETTD REL19A	Identify and interpret characteristics of electrical apparatus associated with power industry assets	36	40
UETTD REL20A	Undertake minor vegetation control and routine minor maintenance of poles and electrical apparatus	36	40
UETTD REL21A	Operate specialised data information equipment near live electrical apparatus	36	40
UETTD RIS32A	Solve electrical problems in remote community network apparatus	72	80
UETTD RIS33A	Solve electrical problems in remote community network systems	72	80
UETTD RIS34A	Install and replace energy meters and associated equipment in remote communities	45	50
UETTD RIS35A	Perform remote community network field switching to a given schedule	36	40
UETTD RIS36A	Install and maintain low voltage services in remote communities (overhead)	36	40
UETTD RIS37A	Install and maintain low voltage services in remote communities (underground)	36	40
UETTD RIS38A	Install and maintain public lighting systems in remote communities	36	40
UETTD RIS41A	Install network infrastructure electrical equipment	54	60

National ID	Unit Title	Nominal Hours	WPs
UETTDRIS42A	Maintain network infrastructure electrical equipment	54	60
UETTDRIS43A	Perform low voltage field switching operation to a given schedule	45	50
UETTDRIS44A	Perform HV field switching operation to a given schedule	45	50
UETTDRIS45A	Perform power system substation switching operation to a given schedule	36	40
UETTDRIS46A	Install and maintain ESI network infrastructure electrical equipment	36	40
UETTDRIS47A	Sample, test, filter and reinstate insulating oil	36	40
UETTDRIS48A	Develop high voltage switching schedule	54	60
UETTDRIS49A	Develop low voltage switching schedule	81	90
UETTDRIS50A	Coordinate power system permit procedures	54	60
UETTDRIS51A	Coordinate and direct power system switching schedules	54	60
UETTDRIS52A	Install and maintain poles, structures and associated hardware	45	50
UETTDRIS53A	Install and maintain power system public lighting	36	40
UETTDRIS54A	Install and maintain poles, structures and overhead conductors and cables	54	60
UETTDRIS55A	Install and maintain low voltage underground services	36	40
UETTDRIS56A	Install and maintain low voltage overhead services	36	40
UETTDRIS57A	Conduct visual checking and treatment of power system poles and structures	27	30
UETTDRIS58A	Locate faults in power system underground power cables	54	60
UETTDRIS59A	Conduct high potential testing of power system underground power cables	45	50
UETTDRIS60A	Install and replace power system energy meters and associated equipment	45	50
UETTDRIS61A	Install mobile generation set for synchronised LV Genset	45	50
UETTDRIS62A	Implement and monitor the power system organisational OHS policies, procedures and programs	27	30
UETTDRIS63A	Implement and monitor the power system environmental and sustainable energy management policies and procedures	27	30
UETTDRIS64A	Install mobile generation set for synchronised HV Genset	36	40
UETTDRIS65A	Contribute to coordinated HV live working	45	50
UETTDRIS66A	Manage an electricity power system OHS management system	126	140
UETTDRIS67A	Solve problems in energy supply network equipment	72	80
UETTDRIS68A	Solve problems in energy supply network protection equipment and systems	36	40
UETTDRIS69A	Diagnose and rectify faults in energy supply apparatus	54	60
UETTDRIS70A	Diagnose and rectify faults in electrical energy distribution systems	54	60
UETTDRIS71A	Diagnose and rectify faults in electrical energy supply transmission systems	54	60
UETTDRIS72A	Diagnose and rectify faults in distributed generation systems	54	60
UETTDRIS73A	Develop engineering solutions for energy supply power transformer problems	54	60
UETTDRIS74A	Develop engineering solutions for energy supply system protection problems	54	60
UETTDRIS81A	Install and maintain telecommunications infrastructure on electricity supply industry assets	72	80
UETTDRIS99A	Test and Verify Distribution Remote Area Installations	36	40
UETTDRLF01B	Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus	18	20
UETTDRLF02B	Perform pole top rescue	18	20
UETTDRLF03B	Perform EWP rescue	18	20
UETTDRLF04B	Perform tower rescue	18	20
UETTDRLF05B	Perform rescue from switchyard structures at heights	18	20
UETTDRLF06B	Perform rescue from a live LV panel	18	20
UETTDRLF07B	Perform cable pit/trench/excavation rescue	18	20

National ID	Unit Title	Nominal Hours	WPs
UETTDRRF08B	Perform EWP controlled descent escape	18	20
UETTDRRF09B	Apply access procedures to work on or near electrical network infrastructure	18	20
UETTDRRF10B	Provide first aid in an ESI environment	18	20
UETTDRRF11A	Testing of connections to low voltage electricity networks	18	20
UETTDRRT21A	Install traction overhead wiring systems	45	50
UETTDRRT22A	Maintain traction overhead wiring systems	54	60
UETTDRRT23A	Install rail traction bonds	36	40
UETTDRRT24A	Maintain rail traction bonds	45	50
UETTDRRT25A	Install overhead rail traction configurations	45	50
UETTDRRT26A	Maintain overhead rail traction configurations	54	60
UETTDRRT27A	Install overhead traction components and equipment	45	50
UETTDRRT28A	Maintain overhead traction components and equipment	54	60
UETTDRRT29A	Operate rail road traction height access equipment	18	20
UETTDRRT30A	Perform to a given schedule rail traction switching operations	45	50
UETTDRRT31A	Maintain energised d.c. traction overhead wiring system	54	60
UETTDRRT32A	Maintain energised traction overhead electrical apparatus using stick techniques	63	70
UETTDRRT33A	Maintain energised traction overhead electrical apparatus using glove techniques	63	70
UETTDRRT34A	Install and maintain traction network wiring systems	36	40
UETTDRRT35A	Install and maintain traction network equipment and components	36	40
UETTDRRT36A	Maintain traction network wiring systems	36	40
UETTDRRT37A	Maintain traction network equipment and components	36	40
UETTDRRT99A	Test and verify rail traction installations	36	40
UETTDRSB21A	Diagnose and rectify faults in substation environment	36	40
UETTDRSB22A	Carry out power systems substation inspection	54	60
UETTDRSB23A	Install and maintain substation direct current systems	27	30
UETTDRSB24A	Maintain high voltage power system circuit breakers	54	60
UETTDRSB25A	Maintain high voltage power and instrument transformers	72	80
UETTDRSB26A	Install high current DC equipment and switchgear	36	40
UETTDRSB27A	Maintain high current DC equipment and switchgear	36	40
UETTDRSB29A	Maintain capacitor bank equipment for voltage regulation	36	40
UETTDRSB30A	Maintain high voltage power system static VAR compensators (SVC)	27	30
UETTDRSB31A	Maintain high voltage power system synchronous condensers	45	50
UETTDRSB32A	Maintain power transformer on load tap changers (OLTC)	72	80
UETTDRSB33A	Install high voltage plant and equipment	45	50
UETTDRSB34A	Carry out surveys using thermovision techniques	27	30
UETTDRSB35A	Maintain discrete control and protection systems	72	80
UETTDRSB36A	Commission discrete control and protection systems	27	30
UETTDRSB37A	Maintain power system distribution field devices	72	80
UETTDRSB38A	Commission power system distribution field devices	27	30
UETTDRSB39A	Perform power system substation switching operation to a given schedule	45	50
UETTDRSO32A	Manage power systems network faults	162	180
UETTDRSO33A	Manage power systems critical events	162	180
UETTDRSO34A	Control power systems generating plant	126	140
UETTDRSO35A	Manage high voltage distribution and subtransmission network demand	162	180
UETTDRSO36A	Develop low voltage distribution switching programs	135	150
UETTDRSO37A	Develop high voltage distribution and subtransmission switching programs	135	150
UETTDRSO38A	Develop and evaluate power systems transmission switching programs	135	150
UETTDRSO39A	Coordinate low voltage distribution networks	135	150
UETTDRSO40A	Coordinate high voltage distribution and subtransmission	135	150

National ID	Unit Title	Nominal Hours	WPs
	networks		
UETTDRSO41A	Manage power systems transmission networks	162	180
UETTDRSO42A	Manage power systems transmission network demand	162	180
UETTDRSO43A	Coordinate low voltage distribution network demand	135	150
UETTDRSO44A	Develop crisis power systems management plans	126	140
UETTDRSO45A	Operate and monitor system SCADA equipment	135	150
UETTDRSO46A	Monitor and control the field staff activities	135	150
UETTDRSO47A	Coordinate high voltage transmission network	135	150
UETTDRSO48A	Respond to discrete and interdependent protection operations	135	150
UETTDRSO49A	Coordinate power system operations in a regulated energy market	135	150
UETTDRSO50A	Respond to complex power system protection operations	162	180
UETTDRSO51A	Manage network systems power flows	162	180
UETTDRT22A	Establish and reinstate a power systems transmission structure work site	72	80
UETTDRT23A	Erect power systems transmission structures	90	100
UETTDRT24A	Erect power systems transmission structure hardware	54	60
UETTDRT25A	Pre-tension stringing overhead transmission conductors and cables	72	80
UETTDRT26A	Install transmission structures and associated hardware	54	60
UETTDRT27A	Maintain transmission structures and associated hardware	54	60
UETTDRT28A	Set-up and install transmission structure stubs	36	40
UETTDRT29A	Install and maintain transmission overhead conductors and cables	54	60
UETTDRT30A	Inspect transmission overhead structures and electrical apparatus	36	40
UETTDRT31A	Maintain energised transmission lines using high voltage live work stick method	63	70
UETTDRT32A	Maintain energised transmission lines using high voltage live work Barehand method	63	70
UETTDRT33A	Maintain energised transmission lines using Barehand technique on a helicopter platform	54	60
UETTDRT34A	Install_maintain overhead transmission network infrastructure	36	40
UETTDRT35A	Install_maintain transmission network infrastructure electrical equipment	36	40
UETTDRT99A	Test and verify transmission overhead installations	36	40
UETTDRTS21A	Maintain interdependent network protection and control systems	135	150
UETTDRTS22A	Commission interdependent network protection and control systems	135	150
UETTDRTS23A	Conduct evaluation of power system substation faults	126	140
UETTDRTS24A	Design testing and commissioning procedures for field devices and substations	126	140
UETTDRTS25A	Maintain and test and metering schemes	126	140
UETTDRTS26A	Commission power systems metering schemes	135	150
UETTDRTS27A	Perform accuracy checks on power systems instrument transformers	135	150
UETTDRTS28A	Repair, test and calibrate protection relays and meters	135	150
UETTDRTS29A	Develop power systems secondary isolation instructional documents	135	150
UETTDRTS30A	Design power systems secondary isolation instructional documents	144	160
UETTDRTS31A	Maintain, test and commission power systems voltage regulating equipment	135	150
UETTDRTS32A	Conduct evaluation of power systems primary plant	144	160
UETTDRTS33A	Undertake power systems project management of substation augmentation and maintenance	162	180
UETTDRTS34A	Install and maintain power system communication equipment	135	150

National ID	Unit Title	Nominal Hours	WPs
UETTDRTS35A	Maintain complex network protection and control systems	162	180
UETTDRTS36A	Commission complex network protection and control systems	162	180
UETTDRTS37A	Perform current injection testing using phantom load	36	40
UETTDRTS38A	Install and replace high voltage metering and associated equipment	36	40
UETTDRTS39A	Maintain compliance with national electricity market metrology practices and procedures	27	30
UETTDRTS40A	Test and maintain energy/revenue metering schemes	27	30
UETTDRTS41A	Install and replace complex energy/revenue metering schemes and associated equipment	27	30
UETTDRTS42A	Management of energy registration data errors for revenue billing purposes	27	30
UETTDRTS43A	Commission energy/revenue metering schemes	27	30
UETTDRTS44A	Test and maintain energy/revenue metering schemes (complex)	36	40
UETTDRTS45A	Manage compliance with national electricity market metrology practices and procedures	36	40
UETTDRTS46A	Verification and certification of revenue metering/energy measurement instruments	36	40
UETTDRTS47A	Commission energy/revenue metering schemes (complex)	36	40
UETTDRVC21A	Use climbing techniques to cut vegetation above ground near live electrical apparatus	27	30
UETTDRVC23A	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	54	60
UETTDRVC24A	Assess vegetation and recommend control measures in an ESI environment	72	80
UETTDRVC25A	Use elevated platform to cut vegetation above ground level near live electrical apparatus	27	30
UETTDRVC26A	Cut vegetation at ground level near live electrical apparatus	54	60
UETTDRVC27A	Monitor safety compliance of vegetation control work in an ESI environment	54	60
UETTDRVC29A	Control vegetation whilst performing linework	36	40
UETTDRVC30A	Coordinate vegetation control operations	108	120
UETTDRVC31A	Operate specialist equipment at ground level near live electrical apparatus	54	60
UETTDRVC32A	Use specialised plant to cut vegetation above ground level near live electrical apparatus	27	30
UETTDRVC33A	Apply pruning techniques to vegetation control near live electrical apparatus	45	50
UETTDRVC34A	Undertake release and rescue from a tree near live electrical apparatus	18	20

Mapping Qualifications

The following table provides an overview of the qualifications from version 2 which replace qualifications from version 1 of the UET12 ESI-Transmission, Distribution and Rail Sector Training

Version 1 Current Qualification			Version 2 Replacement Qualification			
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours	E/ NE
	No previous equivalent		UET50312	Diploma of ESI – Power Systems	1440	NE
	No previous equivalent		UET60312	Advanced Diploma of ESI – Power Systems	1854	E

Traineeships and Apprenticeships

The following table provides a summary of the qualifications in version 2 of the UET12 ESI-Transmission, Distribution and Rail Sector Training Package and the accredited traineeship and apprenticeship courses they will replace.

Version 1 Current Qualification		Version 2 Replacement Qualification				
Code	Title	Traineeship / Apprenticeship	Hours	Code	Title	Hours
Traineeship						
UET50212	Diploma of ESI-Power Systems	ESI-Power Systems Manager (Level 5)	1440		No change in version 2	
UET60212	Advanced Diploma of ESI-Power Systems	ESI-Power Systems Manager (Level 6)	1944		No change in version 2	
Apprenticeship						
UET30512	Certificate III in ESI-Power Systems – Transmission Overhead	Lineworker (Transmission) (Level 3)	1070		No change in version 2	
UET30612	Certificate III in ESI-Power Systems – Distribution Overhead	ESI Distribution (Powerline) (Level 3)	1018		No change in version 2	
UET30812	Certificate III in ESI-Power Systems – Distribution Cable Jointing	ESI-Cable Jointing (Level 3)	1043		No change in version 2	