

UEP12
ESI – GENERATION
SECTOR TRAINING
PACKAGE

Version 2.1

WA NOMINAL HOURS
GUIDE

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

September 2013

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Introduction

This Implementation Guide has been generated to enable the stakeholders in the generation sector Industry in Western Australia to participate in the managed implementation of version2 of the UEP12 ESI – Generation 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 2.1 of UEP12 ESI – Generation Sector Training Package was released by Training.Gov.Au (TGA) on the **7 September 2013**.

Version 2 of UEP12 ESI – Generation Sector Training Package was released by Training.Gov.Au (TGA) on the **14 March 2013**

Obtaining the Training Package

The UEP12 ESI – Generation 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.

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	TGA Release Date	Modification History
2.1	7 September 2013	<p>The following qualifications were edited/updated: UEP20112; UEP30112; UEP30212; UEP40112; UEP40212; UEP40312; UEP40412; UEP40512; UEP50112; UEP50312; UEP50412.</p> <p>The following qualifications had metadata updated: UEP40612; UEP50212</p> <p>The following units were edited/amended: UEPOPS340B; UEPOPS357B; UEPOPS442B; UEPOPS501B; UEPOPS525B.</p> <p>The following Skill Sets were added: UEPSS00003 – High Voltage Operation – H.V. Switching; UEPSS00004 – High Voltage Operation – Development and co-ordination of H.V. switching programs</p>
2.0	14 March 2013	<p>New Qualification:</p> <ul style="list-style-type: none"> UEP40612 <p>New Units UEPMNT201A; UEPMNT202A; UEPMNT369A; UEPMNT370A; UEPMNT371A; UEPMNT442A; UEPMNT443A; UEPMNT444A; UEPMNT445A; UEPMNT446A; UEPMNT447A; UEPMNT448A; UEPMNT449A; UEPMNT450A.</p> <p>The following qualifications were edited/updated: UEP20112; UEP30112; UEP30212; UEP40112; UEP40212; UEP40312; UEP40412; UEP50112; UEP50212; UEP50312; UEP50412.</p> <p>The following imported unit was updated: BSBWHS501A, CPCCCM2007B</p> <p>The following imported unit was updated to the latest release: LGAWORK404A</p> <p>Editorial amendments: Updated unit title: RIIMPO318B; TAEDEL301A. Corrected unit code: MEM05024B Perform welding supervision.</p>
1.0	25 July 2012	<p>The following qualifications were added: UEP20112; UEP30112; UEP30212; UEP40112; UEP40212; UEP40312; UEP40412; UEP40512; UEP50112; UEP50212; UEP50312; UEP50412</p> <p>The following qualifications were deleted: UEP30106; UEP30206; UEP40106; UEP40206; UEP40306; UEP40406; UEP40506; UEP50106; UEP50206; UEP50306; UEP50406</p> <p>The following new units were added: UEPOPS251A; UEPOPS252A; UEPOPS358A; UEPOPS359A; UEPOPS360A; UEPOPS361A; UEPOPS362A; UEPOPS364A; UEPOPS368A; UEPOPS369A; UEPOPS370A; UEPOPS371A; UEPOPS443A; UEPOPS444A; UEPOPS445A; UEPOPS446A;</p>

TGA Release		
Version	Date	Modification History
		<p>UEPOPS447A; UEPOPS450A; UEPOPS451A; UEPOPS452A; UEPOPS454A; UEPOPS456A; UEPOPS457A; UEPOPS520A; UEPOPS523A; UEPOPS524A; UEPOPS525A; UEPOPS526A; UEPOPS527A; UEPOPS528A; UEPOPS529A; UEPMNT361A; UEPMNT362A; UEPMNT366A; UEPMNT367A; UEPMNT368A; UEPMNT434A; UEPMNT435A; UEPMNT436A; UEPMNT440A; UEPMNT441A; UEPOPL001A; UEPOPL002A</p> <p>The following units were removed: UEPOPS201A; UEPOPS208A; UEPOPS212A; UEPOPS213A; UEPOPS214A; UEPOPS215A; UEPOPS216A; UEPOPS217A; UEPOPS218A; UEPOPS219A; UEPOPS220A; UEPOPS221A; UEPOPS222A; UEPOPS223A; UEPOPS224A; UEPOPS225A; UEPOPS226A; UEPOPS227A; UEPOPS228A; UEPOPS229A; UEPOPS230A; UEPOPS231A; UEPOPS233A; UEPOPS234A; UEPOPS235A; UEPOPS236A; UEPOPS239A; UEPOPS250A; UEPOPS302A; UEPOPS303A; UEPOPS341A; UEPOPS348A; UEPOPS350A; UEPOPS353A; UEPMNT301A; UEPMNT306A; UEPMNT316A; UEPMNT321A; UEPMNT322A; UEPMNT323A; UEPMNT324A; UEPMNT325A; UEPMNT326A; UEPMNT327A; UEPMNT328A; UEPMNT329A; UEPMNT330A; UEPMNT331A; UEPMNT332A; UEPMNT333A; UEPMNT334A; UEPMNT335A; UEPMNT336A; UEPMNT337A; UEPMNT338A; UEPMNT341A; UEPMNT342A; UEPMNT343A; UEPMNT344A; UEPMNT349A; UEPMNT353A; UEPMNT354A; UEPMNT360A; UEPOPS415A; UEPOPS401A; UEPOPS418A; UEPOPS421A; UEPOPS427A; UEPOPS429A; UEPOPS436A; UEPOPS438A; UEPMNT405A; UEPMNT409A; UEPMNT418A; UEPMNT420A; UEPMNT423A; UEPOPS503A; UEPOPS504A; UEPOPS506A</p> <p>The following units were amended including editorial changes (see below) UEPOPS202B; UEPOPS203B; UEPOPS204B; UEPOPS205B; UEPOPS206B; UEPOPS207B; UEPOPS209B; UEPOPS210B; UEPOPS211B; UEPOPS232B; UEPOPS237B; UEPOPS238B; UEPOPS240B; UEPOPS241B; UEPOPS242B; UEPOPS243B; UEPOPS244B; UEPOPS245B; UEPOPS246B; UEPOPS247B; UEPOPS248B; UEPOPS249B; UEPOPS301B; UEPOPS304B; UEPOPS305B; UEPOPS306B; UEPOPS307B; UEPOPS308B; UEPOPS309B; UEPOPS310B; UEPOPS311B; UEPOPS312B; UEPOPS313B; UEPOPS314B; UEPOPS315B; UEPOPS316B; UEPOPS317B; UEPOPS318B; UEPOPS319B; UEPOPS320B; UEPOPS321B; UEPOPS322B; UEPOPS323B; UEPOPS324B; UEPOPS325B; UEPOPS326B; UEPOPS327B; UEPOPS328B; UEPOPS329B; UEPOPS330B; UEPOPS331B; UEPOPS332B; UEPOPS333B; UEPOPS334B; UEPOPS335B; UEPOPS336B; UEPOPS337B; UEPOPS338B; UEPOPS339B; UEPOPS340B; UEPOPS342B; UEPOPS343B; UEPOPS344B; UEPOPS345B; UEPOPS346B; UEPOPS347B; UEPOPS349B; UEPOPS351B; UEPOPS352B; UEPOPS354B; UEPOPS355B; UEPOPS356B; UEPOPS357B; UEPOPS402B; UEPOPS403B; UEPOPS404B; UEPOPS405B; UEPOPS406B; UEPOPS407B; UEPOPS408B; UEPOPS409B; UEPOPS410B; UEPOPS411B; UEPOPS412B; UEPOPS413B; UEPOPS414B; UEPOPS416B; UEPOPS417B; UEPOPS419B; UEPOPS420B; UEPOPS422B; UEPOPS423B; UEPOPS424B; UEPOPS425B; UEPOPS426B; UEPOPS428B; UEPOPS430B; UEPOPS431B; UEPOPS432B; UEPOPS433B; UEPOPS434B; UEPOPS435B; UEPOPS437B; UEPOPS439B; UEPOPS440B; UEPOPS441B; UEPOPS442B; UEPOPS501B;</p>

Version	TGA Release Date	Modification History
		<p>UEPOPS502B; UEPOPS505B; UEPOPS507B; UEPOPS508B; UEPOPS509B; UEPOPS510B; UEPOPS511B; UEPOPS512B; UEPOPS513B; UEPOPS514B; UEPOPS515B; UEPMNT302B; UEPMNT303B; UEPMNT304B; UEPMNT305B; UEPMNT307B; UEPMNT308B; UEPMNT309B; UEPMNT310B; UEPMNT311B; UEPMNT312B; UEPMNT313B; UEPMNT314B; UEPMNT315B; UEPMNT317B; UEPMNT318B; UEPMNT319B; UEPMNT320B; UEPMNT339B; UEPMNT340B; UEPMNT345B; UEPMNT346B; UEPMNT347B; UEPMNT348B; UEPMNT350B; UEPMNT351B; UEPMNT352B; UEPMNT355B; UEPMNT356B; UEPMNT357B; UEPMNT358B; UEPMNT359B; UEPMNT401B; UEPMNT402B; UEPMNT403B; UEPMNT404B; UEPMNT406B; UEPMNT407B; UEPMNT408B; UEPMNT410B; UEPMNT411B; UEPMNT412B; UEPMNT413B; UEPMNT414B; UEPMNT415B; UEPMNT416B; UEPMNT417B; UEPMNT419B; UEPMNT421B; UEPMNT422B; UEPMNT424B; UEPMNT425B; UEPMNT426B; UEPMNT427B; UEPMNT428B; UEPMNT429B; UEPMNT430B; UEPMNT431B; UEPMNT432B; UEPMNT433B; UEPMNT501B; UEPMNT502B; UEPMNT503B; UEPMNT504B</p> <p>Relevant EKAS Clauses have been included in all Units as required for upload to Training.gov.au</p> <p>The following imported units were added to UEP12 Version 1: BSBFLM312C; BSBWOR402A; CPCCCM2007A; CPCCLDG3001A; CPCCLHS3001A; CPCCLHS3002A; CPCCLRG3001A; CPCCLRG3002A; CPCCLRG4001A; CPCCLSF2001A; CPCCLSF3001A; CPCCLSF4001A; LGAWORK404A; MEM05005B; MEM05011D; MEM05015D; MEM05016C; MEM05017D; MEM05018C; MEM05019D; MEM05020C; MEM05022C; MEM05024B; MEM05025C; MEM05026C; MEM05036C; MEM05042B; MEM05043B; MEM05044B; MEM05045B; MEM05046B; MEM05047B; MEM05048B; MEM05049B; MEM05050B; MEM05051A; MEM05052A; MEM07006C; MEM07007C; MEM07008D; MEM07011B; MEM07012B; MEM07021B; MEM09002B; MEM09003B; MEM09004B; MEM09005B; MEM09006B; MEM12003B; MEM12007D; MEM12023A; MEM12024A; MEM18001C; MEM18002B; MEM18003C; MEM18006C; MEM18007B; MEM18009B; MEM18010C; MEM18018C; MEM18019B; MEM18020B; MEM18021B; MEM18022B; MEM18055B; NWP318A; NWP319A; NWP320B; RIIHAN309A; RIIMPO304B; RIIMPO308A; RIIMPO309A; RIIMPO318B; RIIMPO319A; TAED301A; TLILIC0012A; TLILIC2005A; TLILIC3006A; UEENEEC001B; UEENEEC005B; UEENEEC010B; UEENEEED101A; UEENEEED104A; UEENEEED107A; UEENEEED102A; UEENEEED104A; UEENEEED105A; UEENEEED107A; UEENEEED117A; UEENEEED124A; UEENEEED137A; UEENEEEF102A; UEENEEEF105A; UEENEEEG006A; UEENEEEG033A; UEENEEEG063A; UEENEEEG101A; UEENEEEG102A; UEENEEEG106A; UEENEEEG108A; UEENEEEG109A; UEENEEEI101A; UEENEEEI107A; UEENEEEI108A;</p> <p>The following imported units were removed from UEP12 Version 1: BSBADM304A; BSBADM305A; BSBCMN108A; BSBCMN203A; BSBCMN209A; BSBCMN213A; BSBCMN310A; BSBCMN311A; BSBCMN404A; BSBCMN411A ; BSBFLM302A; BSBFLM304A; BSBFLM402A; BSBFLM404A; BSBFLM502A; BSBFLM504A;</p> <p>The following Imported Units have been updated to current versions: BSBCUS401B; BSBCUS501C; BSBFLM303C ; BSBFLM305C; BSBFLM306C; BSBFLM309C; BSBFLM311C; BSBINM401A; BSBINM501A; BSBINN301A; BSBINN502A; BSBLED401A; BSBLED501A; BSBMGT402A; BSBMGT403A; BSBMGT502B; BSBMGT515A; BSBMGT516C;</p>

TGA Release		
Version	Date	Modification History
		<p>BSBOHS509A; BSBWOR301A; BSBWOR401A; BSBWOR404B; BSBWOR501A; BSBWOR502B; TLILIC2001A;</p> <p>Editorial changes to Endorsed Units. Removal of spaces in any of the unit or qualification codes.</p> <p>Replace 'Version No in all footers across the whole Training Package.</p> <p>For all Units:</p> <ul style="list-style-type: none"> • Change all Unit suffixes for version 1 units from 'A' to 'B' • Add '1.1 Descriptor' as a new title • Move '3.1 License to practise' to position 1.2 • Move the sub-heading '2.1 Competencies' from the left hand column to the right hand column • Move the sub-heading '2.2 Literacy and Numeracy skills' from the left hand column to the right hand column • Include '3) Employability Skills' and text therein as a whole new section • Revise the numbering of all subsequent sections to accommodate the inclusion of the Employability Skills section at 3) • Include "All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies" as a new paragraph in '7) Required Skills and Knowledge' • Change all references to sections within a unit to reflect the correct section (may require change as a result of the inclusion of the Employability Skills section at 3). • Completely remove the 'Key Competencies' and 'Skills Enabling Employment' sections.

Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in **Version 2** of the UEP12 ESI - Generation Sector Training Package

Note: the new qualification in Version 2 is highlighted in red

National ID	Training Package Qualification Title	Nominal Hours
UEP20112	Certificate II in ESI Generation - Operations Support	324
UEP30112	Certificate III in ESI Generation - Systems Operations	864
UEP30212	Certificate III in ESI Generation - Operations	864
UEP40112	Certificate IV in ESI Generation - Systems Operations	1152
UEP40212	Certificate IV in ESI Generation - Operations	1152
UEP40312	Certificate IV in ESI Generation Maintenance (Mechanical)	1155
UEP40412	Certificate IV in ESI Generation Maintenance (Fabrication)	1155
UEP40512	Certificate IV in ESI Generation Maintenance (Electrical/Electronics)	1152
UEP40612	Certificate IV in Large Scale Wind Generation - Electrical	1152
UEP50112	Diploma of ESI Generation – Systems Operations	1440
UEP50212	Diploma of ESI Generation (Operations)	1440
UEP50312	Diploma of ESI Generation (Maintenance)	1443
UEP50412	Diploma of ESI Generation (Electrical/Electronics)	1440

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in **Version 2** of the UEP12 ESI - Generation Sector Training Package

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

National ID	Training Package Unit Title	Nominal Hours	WPs
UEPMNT201A	Carry out routine work activities in an electricity supply industry generation sector	36	40
UEPMNT202A	Carry out routine work activities in an ESI large scale wind generation environment	18	20
UEPMNT302B	Install and maintain industrial pipework	36	40
UEPMNT303B	Maintain mechanical valves	36	40
UEPMNT304B	Maintain mechanical pumps	36	40
UEPMNT305B	Maintain industrial fans	36	40
UEPMNT307B	Maintain industrial screens, strainers and filters	18	20
UEPMNT308B	Maintain conveyors and associated equipment	36	40
UEPMNT309B	Maintain material feeders	36	40
UEPMNT310B	Maintain material crushers	30	40
UEPMNT311B	Maintain fuel transport equipment	72	80
UEPMNT312B	Maintain industrial pressure vessels	72	80
UEPMNT313B	Maintain internal combustion engines	90	100
UEPMNT314B	Maintain hydro turbines	90	100
UEPMNT315B	Maintain wind turbines	90	100
UEPMNT317B	Diagnose and repair faults in mechanical equipment	36	40
UEPMNT318B	Conduct generator mechanical maintenance	72	80
UEPMNT319B	Maintain and test fixed fire protection systems	18	20
UEPMNT320B	Inspect and repair/replace faults in mechanical equipment/components	36	40
UEPMNT339B	Perform sheet metal work	54	60
UEPMNT340B	Fabricate metal structures and components	36	40
UEPMNT345B	Install electronic equipment	36	40
UEPMNT346B	Maintain electrical equipment	36	40
UEPMNT347B	Maintain complex electrical equipment	54	60
UEPMNT348B	Maintain electrical electronic equipment	36	40
UEPMNT350B	Modify electrical equipment	36	40
UEPMNT351B	Test and commission electrical equipment	36	40
UEPMNT352B	Test and commission electronic electrical equipment	36	40
UEPMNT355B	Install complex/electronic instrumentation equipment	36	40
UEPMNT356B	Maintain instrumentation equipment	36	40
UEPMNT357B	Diagnose and repair faults in instrumentation equipment	54	60
UEPMNT358B	Modify instrumentation equipment	36	40
UEPMNT359B	Test and commission instrumentation equipment	36	40
UEPMNT361A	Maintain Wind Turbine Mechanical Systems	54	60
UEPMNT362A	Maintain Wind Turbine Control Systems	54	60
UEPMNT366A	Maintain power plant inverter systems	54	60
UEPMNT367A	Install and commission stationary gas fuelled reciprocating engines	54	60
UEPMNT368A	Repair and maintain stationary gas fuelled reciprocating engines	54	60
UEPMNT369A	Monitor climatic conditions for renewable energy power generation	36	40
UEPMNT370A	Maintain and monitor wind farm civil assets	36	40
UEPMNT371A	Maintain large scale wind turbine generators	54	60
UEPMNT401B	Install and maintain complex mechanical seals	36	40
UEPMNT402B	Conduct complex levelling and alignment	36	40

National ID	Training Package Unit Title	Nominal Hours	WPs
UEPMNT403B	Maintain complex mechanical valves	36	40
UEPMNT404B	Maintain complex mechanical pumps	36	40
UEPMNT406B	Install and maintain a steam turbine	90	100
UEPMNT407B	Install and maintain a gas turbine	90	100
UEPMNT408B	Install hydro turbines	90	100
UEPMNT410B	Diagnose and repair faults in electronic equipment	54	60
UEPMNT411B	Diagnose and repair faults in complex electrical equipment	54	60
UEPMNT412B	Modify complex electrical equipment	54	60
UEPMNT413B	Modify electronic electrical equipment	54	60
UEPMNT414B	Test and commission complex electrical equipment	54	60
UEPMNT415B	Diagnose and repair faults in complex refrigeration/air conditioning equipment	54	60
UEPMNT416B	Overhaul electrical generator	72	80
UEPMNT417B	Inspect electrical generators and diagnose faults	72	80
UEPMNT419B	Perform civil drafting	54	60
UEPMNT421B	Conduct technical inspection of process plant and equipment	54	60
UEPMNT422B	Conduct performance testing on process plant and equipment	54	60
UEPMNT424B	Monitor efficiency of thermal steam cycle power plant	54	60
UEPMNT425B	Maintain complex instrumentation equipment	72	80
UEPMNT426B	Maintain electronic instrumentation equipment	72	80
UEPMNT427B	Diagnose and repair faults in complex instrumentation equipment	72	80
UEPMNT428B	Modify complex instrumentation equipment	72	80
UEPMNT429B	Modify electronic instrumentation equipment	72	80
UEPMNT430B	Test and commission complex instrumentation equipment	72	80
UEPMNT431B	Test and commission electronic instrumentation equipment	72	80
UEPMNT432B	Write programs for control systems	72	80
UEPMNT433B	Conduct routine generator electrical maintenance	54	60
UEPMNT434A	Diagnose and Repair Faults in Wind Turbine Control Systems	72	80
UEPMNT435A	Diagnose and Repair Faults in Wind Turbine Mechanical Systems	72	80
UEPMNT436A	Test and Commission Wind Turbine Control Systems	72	80
UEPMNT440A	Diagnose and repair faults in power plant inverter systems	54	60
UEPMNT441A	Test and commission power plant inverter systems	54	60
UEPMNT442A	Maintain wind turbine generator electrical systems	54	60
UEPMNT443A	Maintain wind turbine generator control systems	54	60
UEPMNT444A	Maintain wind turbine generator mechanical systems	54	60
UEPMNT445A	Diagnose and repair faults in large scale wind turbine generators	54	60
UEPMNT446A	Coordinate maintenance on a wind farm	54	60
UEPMNT447A	Diagnose and repair faults in wind turbine generator electrical systems	54	60
UEPMNT448A	Diagnose and repair faults in wind turbine generator control systems	54	60
UEPMNT449A	Diagnose and repair mechanical systems faults in wind turbine generators	54	60
UEPMNT450A	Test and commission wind turbine generators	54	60
UEPMNT501B	Diagnose and repair faults in electrical and electronic systems	90	100
UEPMNT502B	Test and commission electronic electrical systems	90	100
UEPMNT503B	Diagnose and repair faults in instrumentation systems	90	100
UEPMNT504B	Test and commission instrumentation systems	90	100
UEPOPL001A	Licence to operate a steam turbine	54	60
UEPOPL002A	Licence to operate a reciprocating steam engine	54	60
UEPOPS202B	Apply quality systems to work	18	20
UEPOPS203B	Operate and monitor communications system	18	20
UEPOPS204B	Maintain and utilise records	18	20
UEPOPS205B	Conduct minor mechanical maintenance	36	40
UEPOPS206B	Conduct minor electrical maintenance	36	40

National ID	Training Package Unit Title	Nominal Hours	WPs
UEPOPS207B	Perform plant lubrication	18	20
UEPOPS209B	Perform process plant inspections	27	30
UEPOPS210B	Conduct first response within a workplace team	27	30
UEPOPS211B	Clean plant and equipment	18	20
UEPOPS232B	Transport plant and equipment	18	20
UEPOPS237B	Perform tool store duties	18	20
UEPOPS238B	Maintain battery banks and cells	27	30
UEPOPS240B	Operate and monitor fuel supply (coal)	36	40
UEPOPS241B	Operate and monitor ash and dust disposal plant	36	40
UEPOPS242B	Operate and monitor dust collection plant	36	40
UEPOPS243B	Operate air conditioning plant	27	30
UEPOPS244B	Operate and monitor site services water systems	27	30
UEPOPS245B	Conduct chemical batching operations	27	30
UEPOPS246B	Operate waste and contaminated water plant	27	30
UEPOPS247B	Operate and monitor an internal combustion single fuel reciprocating engine	36	40
UEPOPS248B	Operate and monitor an internal combustion dual fuel reciprocating engine	36	40
UEPOPS249B	Liaise with stakeholders	18	20
UEPOPS251A	Conduct routine wind turbine maintenance	36	40
UEPOPS252A	Undertake local systems operations	27	30
UEPOPS301B	Conduct single energy source isolation procedures for permit to work	36	40
UEPOPS304B	Make and spread a stockpile	36	40
UEPOPS305B	Operate and monitor briquette coal cooling plant	36	40
UEPOPS306B	Operate and monitor briquette coal drying plant	36	40
UEPOPS307B	Operate and monitor briquette coal press plant	36	40
UEPOPS308B	Perform briquette laboratory tests	36	40
UEPOPS309B	Operate and monitor air conditioning plant and ventilation systems	18	20
UEPOPS310B	Operate bulk coal handling plant	36	40
UEPOPS311B	Operate fabric filter dust collection plant	18	20
UEPOPS312B	Operate and monitor fuel supply	18	20
UEPOPS313B	Operate and monitor boiler draught system	36	40
UEPOPS314B	Operate and monitor fuel firing plant (gas or oil)	36	40
UEPOPS315B	Operate and monitor fuel firing plant (coal)	36	40
UEPOPS316B	Operate and monitor boiler steam_water cycle	36	40
UEPOPS317B	Operate and monitor fixed fire protection systems	27	30
UEPOPS318B	Operate and monitor compressed gas systems	27	30
UEPOPS319B	Operate and monitor gas production plant	27	30
UEPOPS320B	Operate and monitor compressed air systems	27	30
UEPOPS321B	Operate and monitor water treatment plant	27	30
UEPOPS322B	Operate and monitor alkalinity reduction plant	27	30
UEPOPS323B	Operate and monitor reverse osmosis plant	27	30
UEPOPS324B	Operate and monitor brine concentrator plant	27	30
UEPOPS325B	Operate and monitor water quality monitoring systems	27	30
UEPOPS326B	Operate and monitor oil systems	27	30
UEPOPS327B	Monitor and maintain civil assets	27	30
UEPOPS328B	Undertake dam safety surveillance	27	30
UEPOPS329B	Operate and monitor auxiliary steam systems	36	40
UEPOPS330B	Operate and monitor heat exchangers	36	40
UEPOPS331B	Operate and monitor water systems (condensate and feedwater)	36	40
UEPOPS332B	Operate and monitor condensing and cooling systems	36	40
UEPOPS333B	Operate and monitor H.R.S.G. hot gas control system	36	40
UEPOPS334B	Operate and monitor a wind generator	54	60
UEPOPS335B	Operate a hydro generator/synchronous condenser/pump unit	54	60

National ID	Training Package Unit Title	Nominal Hours	WPs
UEPOPS336B	Manage, operate and monitor a gas turbine unit	54	60
UEPOPS337B	Maintain quality systems within the team	18	20
UEPOPS338B	Facilitate effective workplace communication	18	20
UEPOPS339B	Operate and monitor a boiler unit	54	60
UEPOPS340B	Operate and monitor a steam turbine	54	60
UEPOPS342B	Interpret and analyse single operation protection devices	54	60
UEPOPS343B	Operate hydro-electric generating plant and auxiliary equipment	54	60
UEPOPS344B	Conduct water conveyance and control	27	30
UEPOPS345B	Implement dam safety surveillance procedures	27	30
UEPOPS346B	Conduct non-routine operational testing	54	60
UEPOPS347B	Operate and monitor supervisory, control and data acquisition systems	54	60
UEPOPS349B	Operate Local H.V. switchgear	36	40
UEPOPS351B	Operate H.V. condition changing apparatus	54	60
UEPOPS352B	Conduct operational checks on in-service mechanical plant	36	40
UEPOPS354B	Operate and monitor dual fuel firing plant	72	80
UEPOPS355B	Monitor the implementation of under frequency load shedding	54	60
UEPOPS356B	Apply environmental and sustainable energy procedures	18	20
UEPOPS357B	Operate Local L.V. Switchgear	36	40
UEPOPS358A	Monitor and Maintain Wind Farm Civil Assets	36	40
UEPOPS359A	Monitor Climatic Conditions for Renewable Energy Production	36	40
UEPOPS360A	Operate and Monitor a Hydro Turbine	54	60
UEPOPS361A	Operate and Monitor Hydro Plant Auxiliary Systems	54	60
UEPOPS362A	Operate and Monitor Generator/Alternator	54	60
UEPOPS364A	Ensure Compliance with Occupational Health and Safety policy and procedures	18	20
UEPOPS368A	Operate manual systems	27	30
UEPOPS369A	Respond to a critical incident	36	40
UEPOPS370A	Facilitate the use of contingency plans	54	60
UEPOPS371A	Carry out operational checks on in-service electrical plant	36	40
UEPOPS402B	Conduct multiple energy source isolation procedures for permit to work	36	40
UEPOPS403B	Coordinate permit to work system	36	40
UEPOPS404B	Coordinate first response team operation	18	20
UEPOPS405B	Operate and monitor a.c. electrical systems	27	30
UEPOPS406B	Operate and monitor d.c. electrical systems	18	20
UEPOPS407B	Start and Run Up A Gas Turbine	54	60
UEPOPS408B	Shut down a gas turbine	54	60
UEPOPS409B	Start up a boiler unit	54	60
UEPOPS410B	Shut down a boiler unit	54	60
UEPOPS411B	Run up a steam turbine	54	60
UEPOPS412B	Undertake commissioning-decommissioning	27	30
UEPOPS413B	Coordinate operational strategies for power production	18	20
UEPOPS414B	Perform risk analysis of generation plant	18	20
UEPOPS416B	Monitor the implementation of the enterprise's production-maintenance quality control procedures	18	20
UEPOPS417B	Monitor and implement environmental plans and procedures	18	20
UEPOPS419B	Shut down a steam turbine	27	30
UEPOPS420B	Coordinate the network system	27	30
UEPOPS422B	Schedule generation	18	20
UEPOPS423B	Plan a scheduled outage	18	20
UEPOPS424B	Coordinate local H.V. networks	27	30
UEPOPS425B	Produce maintenance plans for generation production plant	27	30
UEPOPS426B	Interpret and analyse multi-operation protection devices	18	20
UEPOPS428B	Develop H.V. switching programs	18	20

National ID	Training Package Unit Title	Nominal Hours	WPs
UEPOPS430B	Control permit to work operations	27	30
UEPOPS431B	Collect and analyse hydrological and meteorological data	18	20
UEPOPS432B	Start up a heat recovery steam generator unit	27	30
UEPOPS433B	Operate and monitor a heat recovery steam generator unit	18	20
UEPOPS434B	Shut down a heat recovery steam generator unit	27	30
UEPOPS435B	Operate and monitor flue gas (NOx) mitigation systems	27	30
UEPOPS437B	Manage system re-start	36	40
UEPOPS439B	Plan and organise work	27	30
UEPOPS440B	Coordinate team activities	27	30
UEPOPS441B	Operate and monitor system equipment	27	30
UEPOPS442B	Monitor and coordinate the operation of a combined cycle gas turbine unit	54	60
UEPOPS443A	Coordinate Wind Farm Operations	36	40
UEPOPS444A	Start and Run-up a Hydro Turbine	54	60
UEPOPS445A	Shut Down a Hydro Turbine	54	60
UEPOPS446A	Operate and monitor hydro unit control and protection systems	72	80
UEPOPS447A	Coordinate photovoltaic solar power plant operations	54	60
UEPOPS450A	Coordinate effective workplace communication	36	40
UEPOPS451A	Coordinate the use of contingency plans	36	40
UEPOPS452A	Conduct operational checks and carry out corrective action on in-service electrical plant	36	40
UEPOPS454A	Coordinate response to critical incidents	27	30
UEPOPS456A	Perform switching to a switching program	27	30
UEPOPS457A	Control electrical energy production	36	40
UEPOPS501B	Manage Occupational Health and Safety policy and procedures	36	40
UEPOPS502B	Manage permit to work system	36	40
UEPOPS505B	Produce maintenance strategies for generation production plant	72	80
UEPOPS507B	Conduct project management	54	60
UEPOPS508B	Manage commissioning/decommissioning	72	80
UEPOPS509B	Manage quality control procedures	36	40
UEPOPS510B	Monitor power generation plant reliability	54	60
UEPOPS511B	Tune process plant and equipment	54	60
UEPOPS512B	Manage the network/system	72	80
UEPOPS513B	Manage operational crisis to maintain/restore power system integrity	54	60
UEPOPS514B	Control hydro generation/pumping	54	60
UEPOPS515B	Coordinate power generation	36	40
UEPOPS520A	Evaluate cost estimations and initiate appropriate solutions	36	40
UEPOPS523A	Manage critical incidents	54	60
UEPOPS524A	Evaluate the scheduling of generation	54	60
UEPOPS525A	Coordinate and direct switching program	54	60
UEPOPS526A	Coordinate electrical energy production	54	60
UEPOPS527A	Manage first response team	36	40
UEPOPS528A	Manage environmental management systems	36	40
UEPOPS529A	Manage operational strategies for power production	72	80

Qualification Mapping

The following table provides an overview of the qualifications from version 2 of the UEP12 ESI - Generation Sector Training Package which replaces qualifications from the existing version of the Training Package

Version 1.1 Current Qualification			Version 2 Replacement Qualification		
National ID	Qualification Title	Hours	National ID	Qualification Title	Hours
	No previous equivalent		UEP40612	Certificate IV in Large Scale Wind Generation – Electrical	1152

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 1.1 which are replaced by the units of competency from version 2 of the UEP12 ESI- Generation Sector Training Package

UEP12 Version 1.1 Current Unit				UEP12 Version 2 Replacement Unit			
National ID	Title	Hours	WPs	National ID	Title	Hours	WPs
	No previous equivalent			UEPMNT202A	Carry out routine work activities in an ESI large scale wind generation environment	18	20
	No previous equivalent			UEPMNT369A	Monitor climatic conditions for renewable energy power generation	36	40
	No previous equivalent			UEPMNT370A	Maintain and monitor wind farm civil assets	36	40
	No previous equivalent			UEPMNT371A	Maintain large scale wind turbine generators	54	60
	No previous equivalent			UEPMNT442A	Maintain wind turbine generator electrical systems	54	60
	No previous equivalent			UEPMNT443A	Maintain wind turbine generator control systems	54	60
	No previous equivalent			UEPMNT444A	Maintain wind turbine generator mechanical systems	54	60
	No previous equivalent			UEPMNT445A	Diagnose and repair faults in large scale wind turbine generators	54	60
	No previous equivalent			UEPMNT446A	Coordinate maintenance on a wind farm	54	60
	No previous equivalent			UEPMNT447A	Diagnose and repair faults in wind turbine generator electrical systems	54	60
	No previous equivalent			UEPMNT448A	Diagnose and repair faults in wind turbine generator control systems	54	60
	No previous equivalent			UEPMNT449A	Diagnose and repair mechanical systems faults in wind turbine generators	54	60
	No previous equivalent			UEPMNT450A	Test and commission wind turbine generators	54	60

Traineeships

The following table provides a summary of the qualifications in the UEP12 ESI - Generation Sector Training Package and the accredited traineeship courses attached.

National ID	Qualification Title	Traineeship	Hours
UEP30212	ESI Generation - Operations	ESI Generation (Operations) (Level 3)	864
UEP40112	ESI Generation - Systems Operations	ESI Generation (Systems Operations) (Level 4)	1152
UEP40212	ESI Generation - Operations	ESI Generation (Operations) (Level 4)	1152
UEP40312	ESI Generation Maintenance (Mechanical)	ESI Generation (Mechanical) (Level 4)	1155
UEP40512	ESI Generation Maintenance (Electrical/Electronic)	ESI Generation (Electrical/Electronic)	1152
UEP50212	ESI Generation (Operations)	ESI - Generation Operations Manager (Level 5)	1440