



***AAC Implementation Reference
Document***

for the

**Electrotechnology (UEE06)
Training Package**

TRAINING PACKAGE QUALIFICATIONS FINDER

Background:

The current ElectroComms and EnergyUtilities industry work environment demands practitioners have both on and off-the-job competency. Industry relies heavily on its training partners (Registered Training Organisations (RTOs)) and training support organisations such as Australian Apprenticeship Centres (AACs), Industry Training Advisory Boards (ITABs) and Industry Skills Councils (ISCs), for assistance in its Vocational Education and Training (VET) activities. In this light, a nationwide network of specialists with high-level knowledge and skills in the content and utilisation of the new suite of ElectroComms and Energy Utilities National Training Packages must be developed.

These Training Packages reflect long-standing industrial frameworks, regulatory and legislative structures inherent to the industry. Due to the complexity and continually changing nature of Training Packages and the environment in which they operate, the major industrial and training stakeholder groups have identified a need for all industry enterprises to be afforded access to a high level of technical support and assistance in regard to the implementation of the revised National Training Packages across Australia's work environments.

The following document has been compiled as a guide to assist a national network of specialist industry, RTOs and AACs advisors support the take-up and utilisation of the current and the revised ElectroComms and EnergyUtilities suite of National Training Packages, namely; Electrotechnology, Transmission, Distribution & Rail, Generation and Gas.

The document focuses on the Certificate II to Certificate IV Qualifications contained within the Revised Electrotechnology Industry Training Package and is divided into the following sections:

- Section 1: Revised Electrotechnology Industry Training Package Qualifications and scopes.
- Section 2: Checklist for AACs, GTCs and RTOs.
- Section 3: "Putting a Qualification together".
- Section 4: Qualification Mapping (from Existing to Revised Training Package)
- Section 5: EE-Oz State and Territory Network contact details

NB: As Training Packages are developed to suit a National System, some qualifications may not be available in every State and Territory. Qualifications available in a State/Territory depend on that jurisdiction's industry requirements, Training Authority's funding schedule and its RTO's scope of delivery.

ElectroComms and EnergyUtilities Industry Skills Council trading as EE-Oz Training Standards (www.ee-oz.com.au)

Content Advice: Content information advice can be obtained from EE-Oz Training Standards

Section 1:

Revised Electrotechnology Industry Training Package UEE06 Qualifications:

Certificate II

Qualification	National Code	Scope
Certificate II in Air-conditioning Split Systems	UEE20106	This qualification provides competencies to position, assemble and start up single head split air conditioning units and systems to a prescribed routine.
Certificate II in Business Equipment Servicing	UEE20206	This qualification provides competencies in base level servicing and maintenance of photocopiers, fax machines and the like.
Certificate II in Electrotechnology Business Support	UEE20306	This qualification provides competencies to maintain documentation, process purchase orders, answer customer inquiries and the like
Certificate II in Winding and Assembly	UEE20406	This qualification provides competencies to wind, place and connect coils for small armatures, transformers and solenoids following prescribed routines.
Certificate II in Computer Assembly and Repair	UEE20506	This qualification provides competencies to select components and assemble computer to customer specifications and carry out routine hardware repairs (generally by replacement) of known faulty components following prescribed routines.
Certificate II in Custom Electronics Assembly and Setup	UEE20606	This qualification provides competencies to assemble and set up of surround sound, home theatre systems. Covers scope of CEDIA certification level 1.
Certificate II in Data and Voice Communications	UEE20706	This qualification provides competencies to select, assemble, set up and maintain simple equipment and systems to a prescribed routine Certification of telecommunication cabling in buildings and premises. Includes ACA requirements for Open cabler registration
Certificate II in Electrical Wholesaling	UEE20806	This qualification provides competencies to take and process orders, check and accept stock deliveries, maintain shelf stock and service customers.

EE-Oz Training Standards

Qualification	National Code	Scope
Certificate II in Electronic Assembly	UEE20906	This qualification provides competencies to select components, set up and operate component placement machines and carry out reworks to a prescribed routine. It includes selecting components, assembling electronic subsystems and carrying out reworks to a prescribed routine.
Certificate II in Fire Alarms Servicing	UEE21006	This qualification provides competencies to select, assemble, set up and test base level fire protection systems in domestic and commercial premises.
Certificate II in Gaming Machines Servicing	UEE21106	This qualification provides competencies in base level servicing and set up of gaming machines to a prescribed in registered clubs and hotels and dedicated games machines in electronic game venues.
Certificate II in Antennae Equipment	UEE21206	This qualification provides competencies to select, assemble, connect and set up TV and radio reception antennae and multiple antenna outlets in buildings and premises
Certificate II in Remote Area Essential Service	UEE21306	This qualification provides competencies to select, assemble, set up and maintain simple equipment and systems following prescribed routines.
Certificate II in Remote Area Power Supply Maintenance	UEE21406	This qualification provides competencies in routine maintenance of remote area power supplies consisting of battery banks, generator sets, photovoltaic arrays and wind generators. Primarily for use by, but not exclusive to, indigenous communities.
Certificate II in Renewable Energy	UEE21506	This qualification provides competencies to select, assemble, set up and maintain simple equipment and systems to a prescribed routine.
Certificate II in Security Assembly and Set up	UEE21606	This qualification provides competencies to select, assemble and set up of wired and wireless base level security systems following prescribe routines.
Certificate II in Technical Support	UEE21706	This qualification provides competencies to collect/receive and store stock at work sites, set up and store equipment and tools, assist in installation, fault finding, maintenance and repair activities.
Certificate II in Appliance Servicing — Refrigerants	UEE21806	This qualification provides competencies to handle and use refrigerants while servicing self contained refrigeration and air conditioning appliances following prescribed routines. Includes regulatory requirements for purchasing and handling refrigerants.
Certificate II in Electronics	UEE21906	This qualification provides competencies to select, assemble, set up and maintain electronic devices following prescribed routines.
Certificate II in Electrotechnology (Career Start)	UEE22006	This qualification covers competencies for work entry program providing grounding in safety and basic skills and knowledge for work in any electrotechnology discipline.
Certificate II in Sustainable Energy (Career Start)	UEE22106	This qualification covers competencies for work entry program providing grounding in safety and basic skills and knowledge for work in any electrotechnology discipline.

EE-Oz Training Standards

Certificate III

Qualification	National Code	Scope
Certificate III in Business Equipment	UEE30106	This qualification provides competencies to install, set up, test, fault find, repair and maintain Photo copiers, fax machines and the like.
Certificate III in Computer Equipment	UEE30206	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain on computer equipment for data storage, personal computer and networks, measurement/analysis and control.
Certificate III in Custom Electronics Installations	UEE30306	This qualification provides competencies to select, install, set up and test surround sound, home theatre and integration aspects for “intelligent houses”. Covers scope of CEDIA certification level 2
Certificate III in Data and Voice Communications	UEE30406	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain telecommunications and high performance data services in buildings and premises. Includes ACA requirements for Open Cabler Registration.
Certificate III in Appliance Servicing	UEE30506	This qualification provides competencies to set up, service and repair electrical and refrigerated appliances with electives in gas appliances.
Certificate III in Electrical Machine Repair	UEE30606	This qualification provides competencies to overhaul and repair motor, transformer and control gear including rewinding
Certificate III in Switchgear and Control Gear	UEE30706	This qualification provides competencies to construction, assembly and wiring of switchboards and control panels.
Certificate III in Electrotechnology — Electrician	UEE30806	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain electrical systems and equipment in building and premises. Includes ERAC requirements for an “Electrician’s licence”.
Certificate III in Electronics and Communications	UEE30906	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain electronic equipment and devices at component/sub-assembly level with options in communications, audio, video and TV, personal computer and networks, security and custom installations
Certificate III in Fire Protection Control	UEE31006	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain fire protection systems in multiple, commercial and industrial premises.
Certificate III in Gaming Electronics	UEE31106	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain gaming machines used in registered clubs and hotels and dedicated games machines used in electronic game venues.

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Qualification	National Code	Scope
Certificate III in Instrumentation and Control	UEE31206	This qualification provides competencies to select, install, set up, test, fault find, repair and maintain systems and devices for measurement and recording of physical/chemical phenomenon and related process control
Certificate III in Refrigeration and Air-Conditioning	UEE31306	This qualification provides competencies to select components, install, set up, test, fault find, repair and maintain refrigeration systems and equipment that apply to food storage and preservation, air conditioning and air distribution equipment in buildings and premises. Includes regulatory requirements for purchasing and handling refrigerants.
Certificate III in Security Equipment	UEE31406	This qualification provides competencies in installation and pre-commissioning set up of wired and wireless security systems in multiple, commercial industrial premises.
Certificate III in Rail - Communications and Networks	UEE31506	This qualification provides competencies to select, install, commission, fault find and maintain radio and dedicated telecommunications networks in rail equipment.
Certificate III in Hazardous areas — Electrician	UEE31706	This qualification provides competencies to select, install, commission, fault find and maintain general electrical systems and equipment and install and test explosion-protected systems and equipment with endorsements in the various explosion protection techniques. Includes ERAC requirements for an “Electrician’s licence”
Certificate III in Hazardous areas — Instrumentation	UEE31806	This qualification provides competencies to select, install, commission, fault find and maintain instrumentation systems and equipment in buildings and premises and maintain and test explosion-protected instrumentation and control systems and equipment with endorsements in the various explosion protection techniques.
Certificate III in Explosion-protected equipment overhaul	UEE31906	This qualification provides competencies to overhaul and repair of general and explosion-protected electrical machines, switchgear and controlgear.

Certificate IV

Qualification	National Code	Scope
Certificate IV in Computer Systems	UEE40106	This qualification provides competencies to select, install, commission, fault find and maintain data processing, communications and control aspects of systems used for monitoring and control of systems for access, surveillance, safety and effective operation of manufacturing, buildings, structures, premises and precincts
Certificate IV in Electrical — Data and Voice Communications	UEE40206	This qualification provides competencies to select, install, commission, fault find and maintain electrical and communications systems and equipment in building and premises Includes ERAC requirements for an “Electrician’s licence” and ACA requirements for Open cabler registration.

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Qualification	National Code	Scope
Certificate IV in Installation Inspection and Audits	UEE40306	This qualification provides competencies in mandatory and contractual inspections of electrical systems and auditing of entities for compliance with electrical safety requirements.
Certificate IV in Electrical — Instrumentation	UEE40406	This qualification provides competencies to select, install, commission, fault find and maintain electrical and equipment in buildings and premises and instrumentation systems and core instrumentation equipment for process and control. Includes ERAC requirements for an “Electrician’s licence”.
Certificate IV in Electrical — Air-Conditioning Split Systems	UEE40506	This qualification provides competencies to select, install, commission, fault find and maintain electrical systems and equipment in buildings and premises and core refrigeration/air conditioning equipment Includes ERAC requirements for an “Electrician’s licence” and regulatory requirements for purchasing and handling refrigerants.
Certificate IV in Electrotechnology — Systems Electrician	UEE40606	This qualification provides competencies to select, install, commission, fault find and maintain electrical systems and equipment with options, typically in Explosion protection; Electrical machines; Electrical inspection; Safety auditing; Contracting; Lifts; Energy supply/distribution.
Certificate IV in Electronics and Communications	UEE40706	This qualification provides competencies in computer and network hardware, medical applications and communication aspects of electronic i.e. transmitters; communications medium/channel; receivers; attenuation; noise reduction. Includes detection/surveillance.
Certificate IV in Electrical — Fire Protection Control Systems	UEE40806	This qualification provides competencies to select, install, commission, fault find and maintain fire protection control systems in buildings Includes ERAC requirements for an “Electrician’s licence”.
Certificate IV in Industrial Electronics and Control	UEE40906	This qualification provides competencies to select, install, commission, fault find and maintain equipment and systems for the control of plant, machines and processes
Certificate IV in Energy Management and Control	UEE41006	This qualification provides competencies to select, install, commission, fault find and maintain equipment and systems for energy management, plant and other services in building, premises and precincts.
Certificate IV in Electrical - Lift Systems	UEE41106	This qualification provides competencies to select, install, commission, fault find and maintain of lifts, escalators and associated equipment. Includes ERAC requirements for an “Electrician’s licence”.
Certificate IV in Electrical - Rail Signalling	UEE41206	This qualification provides competencies to select, install, commission, fault find and maintain rail signalling equipment and systems. Includes ERAC requirements for an “Electrician’s licence”.

EE-Oz Training Standards

Qualification	National Code	Scope
Certificate IV in Refrigeration and Air-Conditioning Servicing	UEE41306	This qualification provides competencies in high level fault diagnosis and rectification, commissioning and maintenance of refrigeration systems and equipment that apply to commercial food storage and preservation and air conditioning and air distribution equipment and special applications. Includes regulatory requirements for purchasing and handling refrigerants.
Certificate IV in Refrigeration and Air-Conditioning Systems	UEE41406	This qualification provides competencies to develop controls and monitor and adjust components to obtain effective operation of refrigeration systems that apply to commercial food storage and preservation and air conditioning and air distribution equipment and special applications.
Certificate IV in Video and Audio Systems	UEE41506	This qualification provides competencies to service high end audio, video, display systems and HDTV.
Certificate IV in Renewable Energy	UEE41606	This qualification provides competencies to select, install, commission, fault find and maintain multiple renewable energy sources and equipment for control of energy use.
Certificate IV in Rail - Communications and Network Systems	UEE41706	This qualification provides competencies to select, install, commission, fault find and maintain radio and dedicated telecommunications networks in rail systems.
Certificate IV in Hazardous areas	UEE41806	This qualification provides competencies to supervise selection, installation, commissioning, maintenance and testing explosion-protected systems and equipment with endorsements in the various explosion protection techniques.

Section 2:

Checklist for AACs, GTCs and RTOs

This checklist may be used as a value added quality assurance tool to assist AACs, GTCs and RTOs in the sign-up and development of training plans.

Recommendations for the AACs, RTOs & GTCs to undertake:

1. Make contact with the Employer.

- Obtain a work profile of the employer and confirm the type of work performed by their employees against that profile.
- Investigate the number of qualified and where required, licensed trades people the company employs and the specialised work they perform.
- Investigate the number of apprentices the employer employs directly or is currently training through a group scheme.
- Investigate and obtain the employers or companies supervision/mentoring policy [for advise refer national policy www.ee-oz.com.au/resources/misc/2031.pdf].
- Identify the person that will represent the organisation for training purposes.
- Identify National Competencies the apprentice can claim under mutual recognition and existing skills that may be claimed under recognition – RPL/RCC.
- If unsure of the Industry obtain Industry advice from Employer Association, Union, Group Training Company or Industry Spokes person.

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2. In consultation with RTO

- Can the employer provide the full range of training proposed and are they aware of their training responsibilities to ensure this training is undertaken?
- What specializations will the employer require?
- If special conditions apply to individual qualifications inform both participating parties [e.g. Profiling in nominated qualifications or workplace evidence assessments (WA)]
- Review the RTOs recognition policy – RPL/RCC
- Identify the qualification that best suits the business activity of the enterprise.
- Can the RTO deliver the qualifications required by the employer?
- Can the RTO deliver the electives/specializations required by the employer?

STEPS TO UNDERTAKE IF THE EMPLOYER CANNOT DELIVER THE REQUIRED ON-JOB TRAINING AND EXPERIENCE.

1. Use a group Training Company
2. Identify opportunities for temporary transfer arrangements to employers who can deliver the on-job training and experience.
3. If employer still cannot deliver the required training redirect to another suitable qualification.

STEPS TO UNDERTAKE IF THE RTO CANNOT DELIVER THE REQUIRED TRAINING.

1. If RTO cannot deliver the specialization or electives units of competence, alternative electives will have to be selected or strategy developed to satisfy the employers requirements.
 - a. Where the employer specialises in these fields of work, the RTO may negotiate with the employer to utilise the employer's expertise to implement workplace training and assessment.
 - b. The RTO may be able to initiate temporary transfer arrangements or swapping of apprentices with other employers who can deliver the on-job training and experience.

If further information is sought regarding the employer/company please contact your States/Territories Industry Training Board/Council or RTO.

Section 3:

Putting a Qualification Together

ELECTROTECHNOLOGY EXAMPLE:

Certificate III in Electrotechnology Electrician

National Qualification UEE3 08 06
No.

Scope

This qualification provides competencies to select, install, set up, test, fault find, repair and maintain electrical systems and equipment in building and premises. Includes ERAC requirements for an “Electrician’s licence”.

Completion requirements

The requirements for awarding this qualification are that the following are successfully achieved:

All of the Core competency standard units;

The required number of Stream Core competency standard units;

The required number of Elective competency standard units as prescribed in the respective Schedule; and

All the required prerequisite competency standard units having being met as required by each competency standard unit.

Core Competency Standard Units

All Core competency standard units to be achieved

UEENEEC020A	Participate in electrical work and competency development activities
UEENEEE001A	Apply OHS practices in the workplace
UEENEEE002A	Dismantle, assemble and fabricate electrotechnology components
UEENEEE003A	Solve problems in extra-low voltage single path circuits
UEENEEE004A	Solve problems in multiple path d.c. circuits
UEENEEE005A	Fix and secure equipment
UEENEEE007A	Use drawings, diagrams, schedules and manuals
UEENEEE008A	Lay wiring and terminate accessories for extra-low voltage circuits
UEENEEE033A	Document occupational hazards and risks in electrical work
UEENEEG001A	Solve problems in electromagnetic circuits
UEENEEG002A	Solve problems in single and three phase low voltage circuits
UEENEEG003A	Install wiring and accessories for low voltage circuits
UEENEEG004A	Install low voltage electrical apparatus and associated equipment
UEENEEG005A	Verify compliance and functionality of general electrical installations
UEENEEG007A	Select and arrange equipment for general electrical installations
UEENEEG008A	Find and repair faults in electrical apparatus and circuits
UEENEEG009A	Develop and connect control circuits

Stream Core Competency Standard Units

At least 2 of the following competency standard units to be achieved:

- UEENEEC001A Maintain documentation
- UEENEEC002A Source and purchase material/parts for installation or service jobs
- UEENEEC003A Provide quotations for installation or service jobs
- UEENEEC010A Deliver a service to customers
- UEENEEED001A Use basic computer applications relevant to a workplace
- UEENEEEE009A Comply with scheduled and preventative maintenance program processes
- UEENEEEE020A Provide basic instruction in the use of electrotechnology apparatus

Elective Competency Standard Units

In accordance with Schedule 3, which forms an integral part of this qualification, achieve a Unit Strand Total of at least 6 as specified.

Note:

1. Prerequisite pathways shall be identified and met for all elective units selected.
 2. In selecting elective units considerations to career planning advice should be given to units that form part of a prerequisite pathway for the progression to achieve particular competencies or qualification at a higher level.
 3. One unit from strand 6 gives a unit strand total of 6, two units from strand three gives a unit strand total of 6 etc.
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Schedule of Electives 3

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
UEENEA002A Select electronic components	UEENEA003A Set-up and check electronic component placement machines	UEENEA012A Make up and assemble bus bars	UEENEEG016A Diagnose and rectify faults in lifts systems	UEENEEH051A Install large wired and wireless security systems	UEENEEA010A Assemble, mount and connect switchgear and controlgear
UEENEA005A Conduct functional and quality tests on assembled electronic apparatus	UEENEA004A Rework electronic sub assemblies	UEENEA013A Assemble and wire control panels	UEENEEG026A Install and maintain field power and distribution systems with a LV demand up to 200 A per phase		UEENED012A Support computers hardware and software
UEENEE005A Fix and secure equipment	UEENED029A Develop basic web pages for engineering applications	UEENED004A Use engineering applications software	UEENEEH012A Solve problems in digital components of electronic apparatus		UEENEEF002A Lay and connect cables for multiple access to telecommunication services
UEENEEF001A Lay and connect cabling for direct access to telecommunication services	UEENEEE019A Solve problems in multiple path a.c. circuits	UEENED007A Develop, enter and verify programs for programmable logic controllers using ladder instruction set	UEENEEH013A Solve problems in amplifier sections of electronic apparatus		UEENEEF010A Select and arrange equipment for local area networks
UEENEEJ014A Solve problems in hydronic systems	UEENEEE021A Plan an integrated cabling system	UEENED027A Develop structured programs for control sub systems to access external devices	UEENEEH018A Find and repair faults in electronic apparatus		UEENEEG007A Select and arrange equipment for general electrical installations

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Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
UEENEEJ017A Solve problems in ultra-low temperature refrigeration systems	UEENEEF003A Install and maintain cabling for telecommunication services in lifts	UEENEEED031A Develop and validate basic integrated systems	UEENEEEH020A Find and repair faults in gaming and games equipment		UEENEEG015A Find and rectify faults in energy supply network equipment
UEENEEJ018A Solve problems in post mix refrigeration systems	UEENEEF004A Install and modify performance data communication copper cabling	UEENEEED043A Install and configure a computer operating system and software	UEENEEEH027A Commission commercial radio frequency (RF) transmission and reception systems		UEENEEG052A Rewind single phase induction machines
UEENEEJ019A Solve problems in ice making systems	UEENEEF005A Install and modify performance data communication optical cabling	UEENEEED046A Set up and configure basic local area network	UEENEEEH046A Solve fundamental problems in electronic communications systems		UEENEEG053A Rewind three phase induction machines rated for low voltage
UEENEEJ052A Carry out repairs to appliance refrigeration systems	UEENEEF007A Set up wireless capabilities of communications and data storage devices	UEENEEEF009A Install and connect voice and data communications equipment	UEENEEEI006A Solve problems in process controllers, transmitters and converters		UEENEEG054A Rewind direct current machines rated for low voltage
UEENEEJ066A Solve problems in diary refrigeration systems	UEENEEF012A Install aerial communication cables	UEENEEEF011A Test, report and rectify faults in voice and data installations	UEENEEEI010A Set-up and adjust process control loops		UEENEEEH006A Assemble and set up fixed audio/video components and systems in buildings and premises

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
UEENEEJ067A Solve problems in central air conditioning systems	UEENEEF013A Install below ground communication cables	UEENEEG010A Find and repair faults in d.c. electrical apparatus and circuits	UEENEEJ057A Service electric heating appliances		UEENEEH010A Install commercial audio/video system components
UEENEEJ068A Maintain microbial control of air and water systems	UEENEEG013A Install and maintain emergency systems.	UEENEEG018A Maintain operation of electrical mining equipment	UEENEEK019A Maintain operation of remote area waste water facilities		UEENEEH017A Carry out repairs of predictable faults in audio and video replay/recording apparatus
UEENEEJ071A Solve problems in refrigerated beverage vending cabinets	UEENEEG017A Install electrical power and control equipment for rail network signalling	UEENEEG019A Maintain the operation of electrical marine equipment	UEENEEK023A Carry out basic repairs to renewable energy apparatus by replacement of components		UEENEEH019A Carry out repairs of predictable faults in television receivers
UEENEEK009A Attend to breakdowns in remote area power supplies	UEENEEG021A Verify compliance and functionality of special electrical installations	UEENEEG020A Select and arrange equipment for special electrical installations	UEENEEK025A Solve basic problems in photovoltaic energy apparatus		UEENEEH021A Find and repair faults in high volume office equipment
UEENEEK024A Assemble and set up photovoltaic apparatus in domestic dwellings	UEENEEG025A Plan electrical installations with a LV demand up to 400A per phase	UEENEEG029A Overhaul and repair switchgear / controlgear	UEENEEP001A Disconnect and reconnect fixed wired electrical equipment connected to a Low Voltage supply		UEENEEH071A Find and repair faults in television receivers

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
UEENEEK037A Install and set up micro-hydro systems	UEENEEG028A Plan switchboard and control panel layouts	UEENEEG055A Rewind three phase induction machines rated for high voltage to 3.3 kV			UEENEEH072A Find and repair faults in the RF sections of electronic apparatus
UEENEEM002A Attend to breakdowns in hazardous areas	UEENEEG034A Perform high voltage field switching to a given schedule	UEENEEG056A Rewind three phase induction machines rated for high voltage above 3.3 kV			UEENEEH073A Find and repair faults in professional audio reproduction components
UEENEEM003A Use and maintain the integrity of portable gas detection devices	UEENEEG057A Conduct electrical tests on low voltage electrical machines	UEENEEG058A Conduct electrical tests on high voltage electrical machines			UEENEEH074A Find and repair faults in audio/video recording equipment
UEENEEM005A Install and maintain integrity of fixed gas detection equipment	UEENEEG059A Conduct mechanical tests of electrical machines	UEENEEG064A Repair mechanical components of electrical machines			UEENEEI009A Set-up process measuring and control instruments
UEENEEM010A Conduct close inspection of existing hazardous areas installations	UEENEEG062A Set up and place electrical apparatus and associated circuits into service	UEENEEH015A Solve problems in microprocessor based hardware and firmware			UEENEEI013A Select equipment for process control systems

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
UEENEP007A Locate and rectify faults in electrical low voltage equipment following prescribed procedures	UEENEEG065A Maintain and service traction lifts	UEENEEH016A Find and repair faults in the microwave amplifier sections of electronic apparatus			UEENEEJ010A Select refrigerant pipe/tube, accessories and associated controls
	UEENEEG066A Installation and maintenance of escalators, moving walks and tread ways	UEENEEH022A Find and repair faults in remote control apparatus			UEENEEJ053A Find and rectify faults in appliance motors and associated controls
	UEENEEG067A Align and Install Lift Equipment	UEENEEH054A Program and commission commercial security alarm systems			UEENEEK017A Maintain and repair facilities associated with remote area essential services operation
	UEENEEH005A Verify compliance and functionality of custom electronic installations	UEENEEH055A Program and commission commercial security access control systems			UEENEEK018A Maintain operation of remote area water facilities
	UEENEEH007A Carry out repairs of predictable faults in general electronic apparatus	UEENEEH056A Program and commission commercial security closed circuit television (CCTV) systems			UEENEEK020A Maintain operation of remote area power plant

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEENEEH011A Solve problems in d.c. power supplies with single phase input	UEENEEI014A Find and rectify faults in process control systems			
	UEENEEH014A Solve problems in frequency dependent circuits	UEENEEJ003A Determine the basic operating conditions of vapour compression systems			
	UEENEEH023A Find and repair faults in microwave heating apparatus	UEENEEJ005A Position, assemble and start up split air conditioning systems			
	UEENEEH024A Carry out repairs of predictable faults in audio components	UEENEEJ051A Service small appliances and power tools			
	UEENEEH038A Find and repair faults in complex power supplies	UEENEEJ054A Find and rectify faults in appliance control devices and systems			

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEENEEH039A Solve problems in basic amplifier circuits	UEENEEJ055A Service refrigerated appliances			
	UEENEEH052A Enter instructions and test basic wired and wireless security systems	UEENEEEM004A Install explosion-protected equipment and wiring systems			
	UEENEEH063A Enter and verify programs in preparation for commissioning fire protection systems	UEENEEEM006A Maintain equipment in hazardous areas			
	UEENEEH064A Commission commercial fire protection systems	UEENEEEM007A Overhaul and repair explosion-protected equipment			
	UEENEEH065A Find and repair faults in fire protection systems	UEENEEEP004A Disconnect and reconnect explosion-protected electrical equipment connected to Low Voltage supply			
	UEENEEH066A Fault find Microcontroller based hardware	UEENEEEP005A Disconnect and reconnect 3.3 kV electric propulsion components of self-propelled earth moving vehicles			

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEENEEI001A Install and set up transducers and sensing devices				
	UEENEEI002A Solve problems in pressure measurement systems				
	UEENEEI003A Solve problems in density/level measurement systems				
	UEENEEI004A Solve problems in flow measurement systems				
	UEENEEI005A Solve problems in temperature measurement systems				
	UEENEEI007A Install process instrumentation and control cabling and tubing				
	UEENEEI008A Install process control apparatus and associated equipment				

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEENEEJ011A Find and rectify faults in process control valve and associated equipment				
	UEENEEJ012A Verify compliance and functionality of process control installations				
	UEENEEJ017A Calibrate and test measuring instruments				
	UEENEEJ002A Prepare refrigeration tubing and fittings				
	UEENEEJ004A Determine the basic operating conditions of air conditioning systems				
	UEENEEJ015A Solve problems in beverage dispensers				
	UEENEEJ016A Solve problems in transport refrigeration systems				
	UEENEEJ020A Solve problems in industrial refrigeration systems				

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEENEEJ056A Service clothes washers and dryers				
	UEENEEJ058A Service dish washing machines				
	UEENEEJ059A Service gas appliances				
	UEENEEJ073A Service microwave ovens				
	UEENEEK007A Conduct audits in the demand side use of remote area power supplies				
	UEENEEK008A Plan periodic maintenance schedules of remote area power supplies				
	UEENEEK026A Install and set up grid connected photovoltaic power systems				
	UEENEEEM009A Test installations in hazardous areas				
	EPOPS234A Perform Routine Oxyacetylene (Fuel Gas) Welding				

EE-Oz Training Standards

Strand 1	Strand 2	Strand 3	Strand 4	Strand 5	Strand 6
	UEPOPS235A Perform Routine Manual Arc Welding				
	UEPOPS236A Perform Manual Heating, Thermal Cutting and Gouging				

Section 4:

Qualification Mapping (from Existing to Revised Training Package)

Electrotechnology UTE99 to UEE06

Electrotechnology UTE99 to UEE06

Summary of the Electrotechnology Industry Qualifications Mapping of this Training Package to the former

Detailed below is a summary qualifications mapping of the former Electrotechnology Training Package (UTE99) to the revised Electrotechnology Training Package (UEE06).

Mapping of old Training Package to the New

Certificate I Qualifications			
New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
Nil	Reserved – for future development	UTE 1 01 02	Certificate I in Electrotechnology
Nil	Reserved – for future development	UTE10202	Certificate I in Sustainable Energy (Electrotechnology)

Certificate II Qualifications			
New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE20106	Certificate II in Air-conditioning Split Systems	New	New

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New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE20206	Certificate II in Business Equipment Servicing	UTE20504	Certificate II in Electrotechnology Servicing
UEE20306	Certificate II in Electrotechnology Business Support	UTE20199	Certificate II in Electrotechnology Business Support
UEE20406	Certificate II in Winding and Assembly	UTE20504	Certificate II in Electrotechnology Servicing
UEE20506	Certificate II in Computer Assembly and Repair	UTE20504	Certificate II in Electrotechnology Servicing
UEE20606	Certificate II in Custom Electronics Assembly and Setup	New	New
UEE20706	Certificate II in Data and Voice Communications	UTE20299	Certificate II in Electrotechnology Data Communications
UEE20806	Certificate II in Electrical Wholesaling	UTE20504	Certificate II in Electrotechnology Servicing
UEE20906	Certificate II in Electronic Assembly	UTE20504	Certificate II in Electrotechnology Servicing
UEE21006	Certificate II in Fire Alarms Servicing	UTE20504	Certificate II in Electrotechnology Servicing
UEE21106	Certificate II in Gaming Machines Servicing	New	New

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New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE21206	Certificate II in Antennae Equipment	UTE20504	Certificate II in Electrotechnology Servicing
UEE21306	Certificate II in Remote Area Essential Service	UTE20499	Certificate II in Electrotechnology Remote Area Essential Services Operations
UEE21406	Certificate II in Remote Area Power Supply Maintenance	New	New
UEE21506	Certificate II in Renewable Energy	UTE20504	Certificate II in Electrotechnology Servicing
UEE21606	Certificate II in Security Assembly and Setup	UTE20504	Certificate II in Electrotechnology Servicing
UEE21706	Certificate II in Technical Support	UTE20604	Certificate II in Electrotechnology Technical Support
UEE21806	Certificate II in Appliance Servicing - Refrigerants	UTE20504	Certificate II in Electrotechnology Servicing
UEE21906	Certificate II in Electronics	UTE20504	Certificate II in Electrotechnology Servicing
	<i>Transferred to ESI – Transmission, Distribution and Rail Sector (UET04)</i>	UTE20399	Certificate II in Electrotechnology Powerline (Vegetation Control)

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New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE22006	Certificate II in Electrotechnology (Career Start)	UTE 1 01 02	Certificate I in Electrotechnology
UEE22106	Certificate II in Sustainable Energy (Career Start)	UTE10202	Certificate I in Sustainable Energy (Electrotechnology)

Certificate III Qualifications			
New Training Package		Old Training Packages	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE30106	Certificate III in Business Equipment	UTE30702	Certificate III in Electrotechnology Entertainment and Servicing
UEE30206	Certificate III in Computer Equipment	UTE30599	Certificate III in Electrotechnology Computer Systems
UEE30306	Certificate III in Custom Electronics Installations	New	New
UEE30406	Certificate III in Data and Voice Communications	UTE30699	Certificate III in Electrotechnology Data Communications
UEE30506	Certificate III in Appliance Servicing	UTE30104	Certificate III in Electrotechnology Assembly and Servicing
UEE30606	Certificate III in Electrical Machine Repair	UTE30104	Certificate III in Electrotechnology Assembly and Servicing
UEE30706	Certificate III in Switchgear and Control Gear	UTE30104	Certificate III in Electrotechnology Assembly and Servicing
UEE30806	Certificate III in Electrotechnology Electrician	UTE31199	Certificate III in Electrotechnology Systems Electrician

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New Training Package		Old Training Package	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE30906	Certificate III in Electronics and Communications	UTE30402 & UTE31099	Certificate III in Electrotechnology Communications & Certificate III in Electrotechnology Scanning
UEE31006	Certificate III in Fire Protection Control	New	New
UEE31106	Certificate III in Gaming Electronics	New	New
UEE31206	Certificate III in Instrumentation and Control	UTE30899	Certificate III in Electrotechnology Instrumentation
UEE31306	Certificate III in Refrigeration and Air-Conditioning	UTE 3 09 99	Certificate III in Electrotechnology Refrigeration and Air Conditioning
UEE30406	Certificate III in Security Equipment	New	New
UEE31506	Certificate III in Rail - Communications and Networks	New	New
UEE31606	Certificate III in Wireless Communications *	UTE30702	Certificate III in Electrotechnology Entertainment and Servicing
	<i>No longer required. Covered by new qualifications</i>	UTE30299	Certificate III in Electrotechnology Building Services
	<i>No longer required. Covered by other Training Package – Business Services</i>	UTE30399	Certificate III in Electrotechnology Business Administration
UEE31706	Certificate III in Hazardous areas – Electrician	Nil	Nil
UEE31806	Certificate III in Hazardous areas - Instrumentation	Nil	Nil
UEE31906	Certificate III in Explosion-protected equipment overhaul	Nil	Nil

Certificate IV Qualifications			
New Qualifications		Old Qualifications	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE40106	Certificate IV in Computer Systems	UTE40499	Certificate IV in Electrotechnology Computer Systems
UEE40206	Certificate IV in Electrical - Data & Voice Communications	New	New
UEE40306	Certificate IV in Electrical Installation Inspection and Audits	<i>UTE4099</i>	<i>Certificate IV in Electrotechnology Inspection and Audits</i>
UEE40406	Certificate IV in Electrical - Instrumentation	New	New
UEE40506	Certificate IV in Electrical - Air-Conditioning Systems	New	New
UEE40606	Certificate IV in Electrotechnology - Systems Electrician	UTE41202	Certificate IV in Electrotechnology Systems Electrician
UEE40706	Certificate IV in Electronics and Communications	UTE40302	Certificate IV in Electrotechnology Communications
UEE40806	Certificate IV in Electrical - Fire Protection Control Systems	New	New
UEE40906	Certificate IV in Industrial Electronics and Control	UTE40199	Certificate IV in Electrotechnology Apparatus Servicing
UEE41006	Certificate IV in Energy Management and Control	<i>UTE40299</i>	<i>Certificate IV in Electrotechnology Building Services</i>
UEE41106	Certificate IV in Electrical - Lift Systems	Certificate IV in Lift Systems - Electrical	
UEE41206	Certificate IV in Electrical - Rail Signalling	New	New
UEE41306	Certificate IV in Refrigeration and Air-Conditioning Servicing	New	New
UEE41406	Certificate IV in Refrigeration and Air-Conditioning Systems	UTE41199	Certificate IV in Electrotechnology Refrigeration & Air Conditioning

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New Qualifications		Old Qualifications	
AQF Code	Qualification Title	AQF Code	Qualification Title
UEE41506	Certificate IV in Video and Audio Systems	UTE40602 & UTE41099	Certificate IV in Electrotechnology Entertainment and Servicing & Certificate IV in Electrotechnology Radar Systems
UEE41606	Certificate IV in Renewable Energy	UTE41301	Certificate IV in Electrotechnology Renewable Energy
UEE41706	Certificate IV in Rail - Communications and Network Systems	New	New
No equivalent	No equivalent	UTE40599	Certificate IV in Electrotechnology Contracting
No equivalent	No equivalent	UTE40602	Certificate IV in Electrotechnology Entertainment and Servicing
No equivalent	No equivalent	UTE40799	Certificate IV in Electrotechnology Explosion-protection
No equivalent	No equivalent	UTE4 999	Certificate IV in Electrotechnology Instrumentation
UEE41806	Certificate IV in Hazardous areas	Nil	Nil

Section 5:

EE-Oz Network Contact Details

Qualifications Finder - <http://www.ee-oz.com.au/index.cfm?pageId=21,217,14,0>

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