



**UEP06**  
**Electricity Supply Industry – Generation Sector**  
**Training Package**

**Volume 1**  
**Preliminary Information**

**Volume 1 of 2**

**Note:** The volumes making up this Training Package should not be read in isolation. The two volumes form part of an integrated whole.

## Electricity Supply Industry – Generation Sector Training Package UEP06

Version Number 1. Review Date 31 Dec 2009

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## Preliminary Information

### The Generation Industry

The Generation sector of the industry produces electricity for use in industry, business and private homes. The industry is supported primarily by large, state-owned or privatised power stations.

*The Electricity Generation Sector encompasses all activities from the point of supply/acceptance of energy resources and consumables to the point of exit of electrical energy and by-products of the generation processes.*

*Within these boundaries it includes all operations, maintenance, systems support, scientific, engineering and design support, management, marketing and administration functions required to establish and meet business objectives.*

The Generation Industry is primarily one of manufacturing and process control, insomuch as the Generation plant produces electricity and the plant operations are controlled through some form of computerised and communication technology systems where the operator need not necessarily interface with the technical functions of the plant.<sup>1</sup> People working in the sector may be involved in a wide range of tasks, including the following:

- Operation of the plant from the control room
- Local operation of plant systems
- Management and coordination of unit or station operations
- Mechanical maintenance
- Electrical maintenance
- Electronic/Instrumentation maintenance
- Installation of new plant.

The Electricity Generation Sector in 2006 is not the same industry as it was when the original Generation Sector Training Package was developed in 1998. The sector has been characterised by a sustained period of privatisation of many State owned energy corporations and enterprises. Outsourcing of many functions and activities required for the production of electricity is prevalent. As a consequence of this restructuring, employment in the industry has been significantly reduced and the shift to contractors has seen organisations utilise the skills of tradespersons from industry sectors other than Generation to meet construction and maintenance requirements.

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<sup>1</sup> In 2002, the Australian Greenhouse Office reported that the status of the Australian Electricity generation industry was:

Operating Plants: 120 Fossil Fuel Power Station sites  
275 Renewable Energy sites (including hydroelectric and wind power)  
Proposed Plants: 62 Fossil Fuel Power sites  
147 Renewable Energy sites (including hydroelectric)

Even though the industry has undergone rapid and significant changes in work methods, staffing levels, management approaches and the sub-contracting of many work functions to external contractors, it still maintains a strong commitment to training and safety and it is now embracing the spirit of the National Training Reform Agenda.

The main activities of the industry are the operation and maintenance, diagnosis and repair of electricity production plant and equipment in relation to:

- large coal or gas fired steam generation plant
- smaller gas fired steam turbine cogeneration plant
- diesel fired internal combustion engine driven generation plant
- hydro generation plant
- wind driven generation plant.

### **Industry coverage**

The formal industry coverage for the Electricity Supply Industry is under ANZSIC Code 3610 in which the sector is defined as consisting of plant and equipment mainly engaged in the generation, transmission or distribution of electricity.

Generation encompasses all activities from the point of supply/acceptance of energy resources and consumables to the point of exit of electrical energy and by-products of the generation processes. Within these boundaries it includes all operations, maintenance, systems support, scientific, engineering and design support, management, marketing and administration functions required to establish and meet business objectives.

Technological innovation and the range of work activities within the vocations involved in Electricity Supply Industry – Generation Sector systems provide excellent career opportunities. There are three specific areas that provide individuals with the opportunity to enter a career in the Generation sector and gain nationally recognized qualifications.

### **Operations**

Operations is a generic term given to employees who undertake a wide range of functions within the electricity generation power station. Those who work in Operations ensure the electricity generation plant is functioning to optimum capacity. Individuals may be specific plant operators or multi purpose operators. Operators also undertake some maintenance functions within the power station.

### **System Operations**

System Operations refers to those occupations that control the production of electricity to meet consumer demand. They require the individual to have an excellent understanding of the operations and technical capabilities of the generation plant.

### **Maintenance**

Entry to a maintenance career path within the Generation Sector will require the individual to have completed a recognised trade qualification through the Electrotechnology or Metals and Engineering Training Packages or equivalent before embarking on further training in the maintenance requirements of electricity generation plant and equipment.

## Regulatory arrangements

The Industry is subject to a high level of legislation, regulation, Codes of Practice, guidelines and advisory standards related to the research, assembly, installation, construction, diagnostics, maintenance, commission, operate, program, test or repair of; steam generation systems, plant and equipment; networks; systems; circuits; equipment; components; appliances; facilities and the like in the field of electricity. The regulatory requirements are typically based on the principle of public safety and the safety and health of individuals who work on electricity generation plant, equipment and systems. Operation of plant and equipment, apparatus and systems, may have other regulatory codes and practices related to boilers, mobile plant and equipment, liquids, electrical wiring systems and associated circuits covering the industrial environment in which they operate.

Where possible, relevant and current regulatory requirements have been incorporated into this Training Package to assure outcomes are complementary to regulation. Where regulatory requirements are amended or introduced such outcomes are to be incorporated in training and assessment delivery. Continuous improvement and maintenance arrangements included in this Training Package will endeavour to maintain pace with changes.

## Statutes, regulations and codes of practice

Federal, State and Territory Electricity, Telecommunications, Anti-discrimination, Occupational Health and Safety and Work Cover Acts and Regulations typically cover the Industry. Additionally, there are many Australian/New Zealand and International Standards, codes of practices and regulations that apply and to which observance is essential for assuring life, property and commerce. Thus, relevant legislative, regulatory codes of practice, guidelines and advisory standard requirements form an integral part of the obligatory requirements in the vocational standards found in this Training Package. The following websites can be a useful starting point for the latest information:

[www.fed.gov.au](http://www.fed.gov.au)

[www.nsw.gov.au](http://www.nsw.gov.au)

[www.qld.gov.au](http://www.qld.gov.au)

[www.sa.gov.au](http://www.sa.gov.au)

[www.nt.gov.au](http://www.nt.gov.au)

[www.act.gov.au](http://www.act.gov.au)

[www.wa.gov.au](http://www.wa.gov.au)

[www.tas.gov.au](http://www.tas.gov.au)

[www.standards.org.au](http://www.standards.org.au)

[www.erac.gov.au/](http://www.erac.gov.au/)

<http://www.acma.gov.au>

<http://www.dewr.gov.au/>

<http://www.ascc.gov.au/>

<http://www.workplace.gov.au/tra>

<http://www.dest.gov.au/>

<http://training.com.au/>

## Other industry standards

It is recognised that the Generation Sector Standards do not cover all the competencies, which are likely to be required and applied within our workplaces. Nationally endorsed competency standards from other industries will be used, where appropriate, and the concept of cross-industry disciplinary standards will be encouraged. Specific rules for the importation of units from elsewhere have been included within this Training Package.

## **Overview of Training Packages**

### **What is a Training Package?**

A Training Package is an integrated set of nationally endorsed competency standards, assessment guidelines and Australian Qualifications Framework (AQF) qualifications for a specific industry, industry sector or enterprise.

Each Training Package:

- provides a consistent and reliable set of components for recognising performance and determining training, recognising and assessing people's skills. A Training Package may also have optional support materials.
- enables nationally recognised qualifications to be awarded through assessment against given industry competency standard units
- encourages the development and delivery of flexible training and assessment which suits individual and industry requirements
- encourages learning and assessment in a work-related environment which leads to verifiable industry outcomes.

### **How do Training Packages fit within the National Training Framework?**

The National Training Framework is made up of the nationally agreed quality arrangements for the vocational education and training sector, the Australian Quality Training Framework (AQTF), and Training Packages which contains the vocational standards for industry, endorsed by the National Quality Council (NQC).

### **How are Training Packages developed?**

Training Packages are developed by Industry Skills Councils to meet the identified training needs of specific industries or industry sectors. To gain national endorsement of a Training Package which contains the vocational standards for industry, developers must provide evidence of extensive research, consultation and support within the industry area.

### **How do Training Packages encourage flexibility?**

Training Packages describe the skills and knowledge needed to perform effectively in the workplace. Training Packages do not prescribe how people should be trained. It is acknowledged that people can achieve vocational competency in many ways and Training Packages emphasise what learners can do, not how or where they learned to do it. For example, some experienced workers might be able to demonstrate competency against the units of competency, and even gain a qualification without completing a formal training program.

Assessment and training may be conducted at the workplace, off-the-job, at a training organisation, during regular work, or through work experience, work placement, work simulation or any combination of these.

### **Who can deliver and assess using Training Packages?**

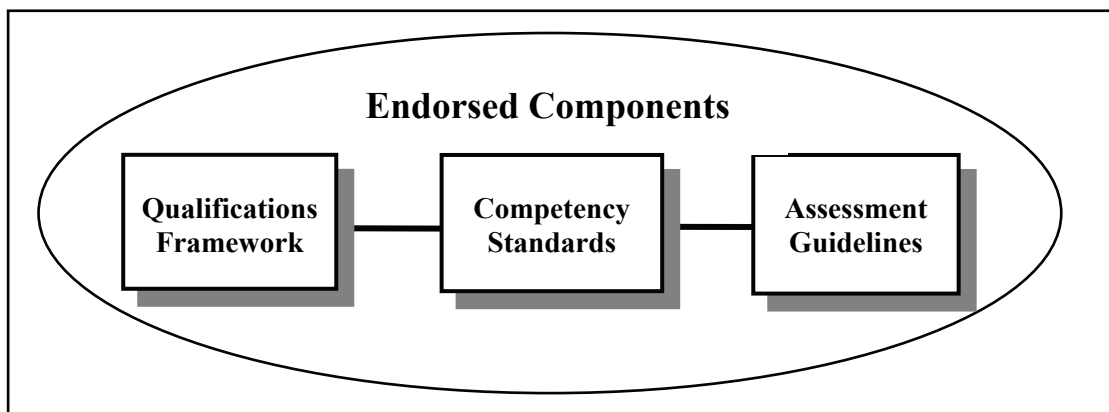
Training and assessment, using Training Packages must be conducted by an RTO that has the qualifications or specific competency standard units on its scope of registration, or that works in partnership with another RTO as specified in the AQTF Standards for RTOs.

Training Packages are made up of mandatory components endorsed by the NQC and optional support materials.

### Training Package Endorsed Components

The nationally endorsed components include the Qualification Framework, Competency Standards and Assessment Guidelines. These form the basis of training and assessment in the Training Package and, as such, they must be used.

### Training Package Components



### Qualifications Framework

Each Training Package provides details of those competency standards that must be achieved to award AQF qualifications or Statements of Attainment for part thereof a qualification. The rules around which competency standard units can be combined to make up a valid AQF qualification in the Training Package are referred to as “packaging rules”. The packaging rules must be followed to ensure the integrity of validating recognised qualifications issued.

### Competency Standards

Each competency standard unit identifies a discrete workplace requirement and includes the knowledge and skills that underpin competency as well as language, literacy and numeracy and Occupational Health and Safety requirements. The competency standard units must be adhered to in training and assessment to ensure consistency of outcomes.

### Assessment Guidelines

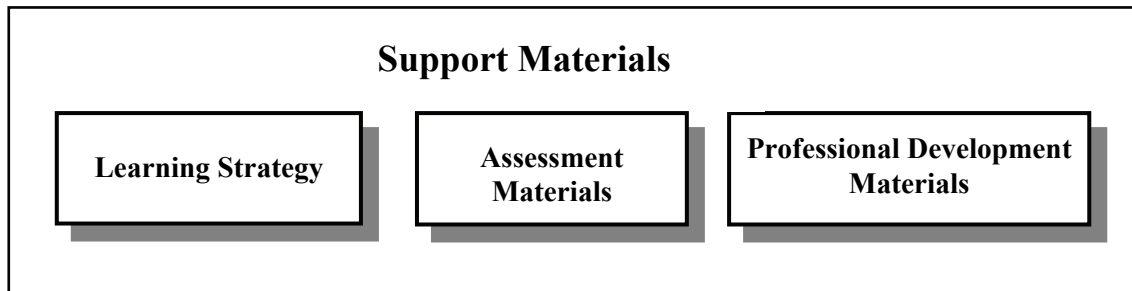
The Assessment Guidelines provide an industry framework to ensure all assessment outcomes meet industry needs and the nationally agreed standards as expressed in the Training Package and the AQTF Standards for RTOs. The Assessment Guidelines must be followed to ensure the integrity of assessment leading to nationally recognised qualifications.

### Training Package Support Materials

The endorsed components of a Training Package are complemented and supported by optional support materials that provide for choice in the design of training and assessment to meet the needs of industry, RTOs and learners. In some instances, the Industry Skills Council may have developed a Training Package and industry support material to assist RTOs in delivering the preferred industry approach. These support

materials should be considered by RTOs in accordance with the relevant AQTF standard in an effort to support increased national consistency and assure industry of the quality of outcomes.

A Training Package can relate to single or multiple Units of Competency, an industry sector, a qualification, or the whole Training Package. They tend to fall into one or more of the categories as illustrated below.



A range of stakeholders can produce Training Package support materials. However, to ensure national consistency, partnership or collaborative approaches are preferred. Support materials developers include Industry Skills Councils, RTOs, individual trainers and assessors, private and commercial developers and Government agencies.

Where such materials have been quality assured through a process of ‘noting’ by the NQC, they display the following official logo. Noted support materials are listed on the National Training Information Service (NTIS), together with a detailed description and information on the type of product and its availability ([www.ntis.gov.au](http://www.ntis.gov.au)).



It is not compulsory to submit support materials for noting, any resources that meet the requirements of the Training Package can be used.

There are agreed conventions for the national codes used for Training Packages and their components. Always use the correct codes, exactly as they appear in the Training Package, and with the title always following the code.

### **Training Package Codes**

Each Training Package has a unique five-character national code assigned when the Training Package is endorsed, for example UEP06. The first three characters are letters identifying the Training Package industry coverage and the last two characters are numbers identifying the year of endorsement.

### **Qualification Codes**

Each Training Package qualification has a unique eight-character code, for example in this Training Package UEP30106. In qualification codes, the:

- first three characters are letters identify the Training Package
- fourth is a number reflecting the AQF level for the qualification

- fifth and sixth characters represent the number of the qualification for the given level. That is in the case of UEP30106, it is the first and only AQF level 3 qualification on offer in the Training Package
- seventh and eight numbers identify the year in which the qualification was endorsed. Any subsequent amendments to the qualification result in this number changing to reflect the new year of endorsement.

### Competency Standard Unit Codes

Each competency standard unit has a unique code. A typical code is made up of a maximum of 12 characters; normally a mixture of upper-case letters and numbers. For example in this Training Package the following approach has been adopted:

Unit Number									
U	E	G	N	S	G				A
Industry — EE-Oz Training Standards identifier			Training Package identifier			Industry Streams: Numbers 000 to 999			Version

Where an amendment is made to a competency standard unit the following applies:

- Where changes do not affect the outcome of the unit the last character alpha identifier is incremented to indicate the new version. For example, UEPOPS407A is changed to UEPOPS407B.
- Where changes alter the outcome, a new unit title and code is assigned.

### Training Package Titles

The title of each endorsed Training Package is unique and relates to the industry’s broad coverage. There are agreed conventions for titling Training Packages and their components. Always use the correct titles, exactly as they appear in the Training Package and with the code always placed before the title.

### Qualification Titles

The title of each endorsed Training Package qualification is unique. Qualification titles use the following sequence:

- firstly, the qualification is identified as either Certificate I, Certificate II, Certificate III, Certificate IV, Diploma or Advanced Diploma
- this is followed by the words ‘in’ for Certificates I to IV and ‘of’ for Diploma and Advanced Diploma
- then the industry descriptor follows, for example Electricity Supply Industry (ESI) – Distribution, Transmission or Rail, and
- if applicable, the occupational or functional stream follows in brackets, for example (Powerline), Certificate III in ESI Generation (Operations) or Diploma of ESI Generation (Electrical/Electronics).

## Competency Standard Unit Titles

Each competency standard unit title is unique. The Unit title describes the competency outcome concisely and is written in sentence case, eg:

- UEPOPS230A Operate lifting and load shifting equipment for loads greater than ten tonnes
- UEPOPS505A Produce maintenance strategies for generation production plant

## The Generation Sector Training Package (UEP06)

The Electricity Supply Industry – Generation Training Package has been developed on behalf of the EnergyUtilities industry and community stakeholders from all States and Territories of Australia by EE-Oz Training Standards, with the support of the Department of Science, Education and Training (DEST). EE-Oz Training Standards operates under a charter from DEST as a recognised National Industry Skills Council for the ElectroComms and EnergyUtilities Industry. EnergyUtilities Industry practitioners, regulators, government agencies and community stakeholders contributed much effort, support and knowledge in its development.

The Generation Sector Training Package was developed, reviewed and validated through extensive industry consultation, and it reflects the views of a wide cross-section of the industry and its key stakeholders/practitioners throughout Australia. It describes the skills and knowledge which pertain to vocations within the field of Generation and offers a choice and range of qualifications or units of competency, through appropriate training for organisations and for personnel seeking formal recognition of respective skills and knowledge. It is recognised that other training pathways may exist in the form of other Training Packages and arrangements.

The Training Package for the Electricity Supply Industry – Generation Sector (UEP06) has been constructed as a two volume set. Volume 1 covers the overall Package framework and completion requirements for qualifications. Volume 2 includes the content details of parts and sub-sections of Volume 1. The two volumes form an integrated whole and are not to be used independently of each other.

### Volume 1:

Preliminary Information

The Electricity Generation Sector Industry

Overview of Training Packages

ESI – Generation Sector Industry Training Package

Part 1 Qualifications Framework

Part 2 Competency Standards Overview and Index

Part 3 Assessment Guidelines

Appendix A – New Apprenticeships

Appendix B – Sample Assessment Instruments

Enclosures

- Enclosure A: List of Sample Assessment Instruments

- Enclosure B: Administrative Forms

- Enclosure C: Glossary of Terms

## Volume 2

Preliminary Information

Part 1 Definitions/Glossary

Part 2 Competency Standards

2.1 Competency Standard Units

2.1.1 Operations Units UEPOPS201A – UEPOPS250A

2.1.2 Operations Units UEPOPS301A – UEPOPS357A

2.1.3 Maintenance Units UEPMNT301A – UEPMNT360A

2.1.4 Operations Units UEPOPS401A – UEPOPS442A

2.1.5 Maintenance Units UEPMNT401A – UEPMNT433A

2.1.6 Operations Units UEPOPS501A – UEPOPS515A

2.1.7 Maintenance Units UEPMNT501A – UEPMNT504A

2.1.8 Imported Units

Part 2.2 Language, Literacy and Numeracy

Part 2.3 Key Competencies

Part 2.4 Skills Enabling Employment

## Version modification history

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

Version	Release Date	Authorisation	Comments
1	22 Nov 2006	NQC	Primary Release of <b>Revised</b> Training Package replacing UTP98

The first Training Package was released in 1998 as the Training Package for the Electricity Supply Industry – Generation Sector (UTP98). At that time it broke new ground for setting nationally recognised qualifications comprised of competency standard units as they related to work performance. It assisted in benchmarking the design of training and assessment processes and practices.

In its revised form the Electricity Supply Industry – Generation Sector Training Package has gone even further in improving currency and relevance to industry by enhancing the range of qualifications and competency standard units available with added flexibility to the industry. It includes an array of new qualifications and revised competency standard units, pathways and design features.

The Generation sector has been characterised during the last few years by reductions in the size of the workforce, the privatisation of many enterprises and the out-sourcing of many functions and activities. Notwithstanding these changes, the qualifications and competency standards in this Training Package cover approximately one third of the

direct workforce of Electricity Supply Industry – 47,000 employees. The standards provide a benchmark for the industry as it continues the shift towards outsourcing, and coverage for the increasing contractor workforce, which is required to support day to day sector activities.

The previous competency standard units have been reviewed, reorganised and updated to over 350 new Competency Standards Units across Australian Qualification Framework levels two (2) to five (5). The result is a Training Package that is more relevant to the industry as it readily responds to the needs and responsibilities of the future, in technology and work organisation.

New skilled career pathways have also been developed that suit employment-based new entrants, as well as the existing workforce or those with pre-existing skill sets.

The Training Package can be used by all those involved in the delivery and assessment of competencies that cover, Operations, System Operations and Maintenance associated with Electricity Power Generation.

Users of this Industry Training Package include:

- State Training and Recognition Authorities which use the Training Package as the industry's pre-eminent advice to government and as a statement of the minimum requirements to be satisfied by RTOs in the delivery of services
- State/Territory Industry Training Advisory Bodies/Industry Skills Councils which use the Training Package to underpin their relationship with, and support for, the State Training and Recognition Authorities quality systems, including providing advice
- RTOs which issue national qualifications and/or Statements of Attainment, based on the requirements outlined in the Training Package which contains the vocational standards for Industry
- Individual candidates/trainees/learners who use the provisions of the Training Package to establish their responsibilities and to protect their prerogatives
- Organisations mapping and benchmarking their human resource processes and arrangements to national competency standard units in this Training Package.

## **Outline of this Training Package**

The endorsed components of this Training Package are contained in two volumes. Volume 1 covers the overall Package framework and completion requirements for qualifications, and Volume 2 the content details for respective parts and sub-sections of Volume 1. Both volumes form an integrated whole and are not to be used independently of each other:

### **Volume 1: Structure and Overview**

#### **Qualification Framework**

This section describes how the qualifications, scope/descriptions, composition and content are structured. Completion and issuance requirements are provided as well as advice on flexibility arrangements, with entry and exit pathways and articulation arrangements. Titles and codes of the list of qualifications to be issued are also included.

## Competency Standards

This section describes how the competency standards were developed (in broad terms), the industry coverage they apply to, as well as the format and construction of the individual competency standard units. The index of competency standard units and their scope/description is included in this part. Matters related to language, literacy and numeracy, access, equity and cultural diversity and regulatory arrangements, for which the competency standard units may apply, is also included. The Definitions/Glossary sections of the Training Package link directly to the competency standard units and no Unit is to be used in isolation or exported without these interrelated components.

There are over 125 competency standard units included in Volume 2, each listed according to their respective industry discipline area.

## Assessment Guidelines

This section outlines how the assessment guidelines inform a Registered Training Organisation (RTO) on the infrastructure requirements they will need to enable them to carry out training delivery assessment activities related to the Training Package. The guidelines include assessment systems, the role of RTOs, assessment pathways, recognition arrangements, assessor qualifications and sources of information.

## Volume 2: Competency Standard Units – Content and scope

Volume 2 contains the Competency Standards Units in their respective CSU Schedules, eg Schedule 1 – Operations units AQF2, Schedule 5 – Maintenance units AQF4.

Volume 2 also contains the Definitions/Glossary section, which provides a description of relevant terms and vocabulary that appear in this Package. Also included are definitions relating to Literacy and Numeracy skills; Key Competencies and Skills Enabling Employment.

*Note: The two volumes form an integrated whole and must not be used independently of each other.*

## Important Note to Users

Training Packages are dynamic documents. They are amended periodically to reflect the latest industry practices and are version controlled. It is essential that the latest version is always used.

### **Check the version number before commencing training or assessment.**

This Training Package is Version 1 – check whether this is the latest version by going to the National Training Information Service ([www.ntis.gov.au](http://www.ntis.gov.au)) and locating information about the Training Package. Alternatively, contact the Training Package – developer and technical content custodian ElectroComms and EnergyUtilities Industry Skills Council Ltd trading as EE-Oz Training Standards <http://www.eeoz.com.au/> to obtain relevant content advice and confirm the latest version number.

### Explanation of the review date

The review date (shown on the title page and in the footer of each page) indicates when the Training Package is expected to be reviewed to meet changes in technologies and other circumstances. The review date is not an expiry date. An endorsed Training Package remains current until it is reviewed or replaced.

### Explanation of version number conventions

The primary release Training Package is Version 1. When changes are made to a Training Package, sometimes the version number is changed and sometimes it is not, depending on the extent of the change. When a Training Package is reviewed, it is considered to be a new Training Package for the purposes of version control, and is Version 1. Do not confuse the version number with the Training Package's national code (which remains the same during its period of endorsement).

Note the change of National Code from UTP98 to UEP06 for this Training Package.

### AQF Qualifications in this Training Package

Generation Sector Training Package Qualifications can be achieved by completing the AQF Qualifications (Certificates I – IV, Diploma or Advanced Diploma) or by completing Possible Skill Clusters Competency Standard Units (ie Independent Units).

#### 1. AQF Qualifications

The AQF qualifications in this Training Package are listed below:

<b>AQF Code</b>	<b>Qualification Title</b>
UEP20106	Certificate II in ESI Generation (Operations Support)
UEP30106	Certificate III in ESI Generation (Systems Operations)
UEP30206	Certificate III in ESI Generation (Operations)
UEP40106	Certificate IV in ESI Generation (Systems Operations)
UEP40206	Certificate IV in ESI Generation (Operations)
UEP40306	Certificate IV in ESI Generation Maintenance (Mechanical)
UEP40406	Certificate IV in ESI Generation Maintenance (Fabrication)
UEP40506	Certificate IV in ESI Generation Maintenance (Electrical/Electronic)
UEP50106	Diploma of ESI Generation (Systems Operations)
UEP50206	Diploma of ESI Generation (Operations)
UEP50306	Diploma of ESI Generation (Maintenance)
UEP50406	Diploma of ESI Generation (Electrical/Electronic)

## **2. Possible Skill Clusters CSUs**

A list of competency standard units that meet regulatory or specialist requirements recognised by Statements of Attainment have been included in the Package to support possible skill cluster outcomes. These outcomes generally support requirements associated with regulatory, safety, or specialised/hazardous functions of work.

### **Mapping Qualifications of this Training Package to the former**

This Training Package includes a table mapping the former Generation Sector Industry Training Package (UTP98) to this new Generation Sector Training Package. This information is included to assist in linking previous units to new units and to assist in minimising any translation issues that may arise.

This information is detailed in Volume 1 Part 1 – Qualifications Framework, Table 1.

### **Relationship of CSUs to former Training Package and Prerequisites**

Included in this Training Package is a summary of:

- competency standard units in the ESI – Generation Sector Training Package
- the relationship to former competency standard units
- AQF alignment and weighting points of each competency standard unit
- prerequisite requirements.

This information is contained in Volume 1 Part 2 – Competency Standards, Table 2.

### **List of Imported Competency Standard Units**

Included in this Training Package is a list of competency standard units imported from other endorsed Training Packages into the ESI – Generation Sector Training Package. This advice is detailed in Volume 1 Part 2 – Competency Standards, Table 6.

### **Language, Literacy, Numeracy and Key Competencies**

The competency standards have been written to reflect the technical and operational needs of industry and include appropriate language and literacy requirements. A new and specific section related to literacy and numeracy skills has been included in the competency standard units for the purposes of providing advice to RTOs on the entry requirements for each unit. It characterises how participants are to be best equipped to achieve the required reading, writing and numeracy skill levels.

A specific section for Literacy and Numeracy Skills, Key Competencies and Skills Enabling Employment has been included in Volume 2 of this Training Package. In addition, there is an explanation of their relationship to the Performance Criteria and their assessment in accordance with the critical aspects of evidence within each competency standard unit.

### **Access, Equity and Cultural Diversity**

The skills required of employees in the Generation sector of the EnergyUtilities Industry are comprehensive and cover many employment opportunities. The competency standards reflect this range of knowledge and skills. They are written in a

non-exclusive manner so as to increase the participation rates of under-represented groups and to minimise unintentional bias.

As a matter of policy the Industry and this Training Package do not exclude any persons from participating in competency development, training and employment. This includes encouraging under-represented groups such as indigenous peoples, people with disabilities, women, and people from rural and remote areas or cultural diversity to join the Industry.

## **Responsibility for Training Package Maintenance**

The Training Package for the Generation Industry is to be managed and maintained by the National Generation Industry Training Group (NGTG – see below for membership details). NGTG is a standing working group of the ElectroComms and Energy Utilities Industry Skills Council Ltd trading as EE-Oz Training Standards, a DEST declared Industry Skills Council (ISC). The group is representative of the Generation Industry and related stakeholders. It includes RTOs from around Australia and is represented by Employers and Unions, making it bipartite. The EE-Oz Training Standards Board and Sector Council determine its composition and representatives. The Board and Sector Council may vary its membership from time to time.

The charter of the NGTG is to monitor, review and maintain the ESI – Generation Sector Training Package. This Charter encompasses the following responsibilities:

- *Maintenance of Competency Standards* – to initiate and respond to the need to review, vary, delete and add to the Generation sector competency standard units, as part of the sector’s standards inventory
- *Maintenance of Competency Delivery Processes* – to monitor the effectiveness of the delivery of competency and so initiate and respond to issues, which may impact on those processes
- *Maintenance of Assessment Guidelines* – to monitor the effectiveness of the Assessment Guidelines and supporting systems; to initiate and respond to issues which impact, or are likely to impact, on the quality of the assessment systems; and to promote quality improvements throughout the system
- *Maintenance of the Qualifications and Recognition Systems* – to monitor the effectiveness of the application of the Qualification and Recognition Systems contained in the Training Package which contains the vocational standards for industry; and to review/revise the system as required
- *Validation of imported Competency Standard Units* — to monitor the effectiveness and value of imported units for the purpose of their inclusion in the Training Package qualifications framework.

The NGTG meets at least annually to review and plan the Industry maintenance and management processes related to the Training Package which contains the vocational standards for industry. The majority of the considerations by the Group will require prompt response and, therefore, business and decisions will normally be handled by electronic/mail means. Support for the NGTG will be provided by the EE-Oz Training Standards network, who will act as the secretariat.

The NGTG is an integral part of the Generation Industry and EE-Oz Training Standards Electricity Supply Industry Sector Council consultative mechanisms.

## Current Membership of the National Generation Training Group (NGTG)

<b>Name</b>	<b>Title</b>	<b>Organisation</b>
Allwright, Trevor	Manager Network Services	Power and Water Corporation
Britten, John	Operations Training and Standards Supervisor	Hydro Tasmania
Curry, Ian	Official	AMWU
Dyer, Yvette	Admin Liaison Officer	MITAC
Gill, Mark	Workers Inspector	Australian Services Union (ASU)
Gould, Wayne	Operations	TXU Torrens Island
Graham, Ian	Chief Electrical Inspector	Office of the Chief Electrical Inspector
Gullan, Rob	Executive Director	EPIC Training
Howard, Jan	Industry Liaison Officer	Department of Education and Training
Howlett, Bob	CEO	ESITO
Ingram, John	National Assistant Secretary	CEPU, Victoria
Karznia, John	Executive Officer	Energy Skills Australia
Leverenz, A. J.	Executive Officer	SA ITAB
Love, David	Project Consultant	Workplace Skills Management Pty Ltd
Lovell, Peter	Project Officer	Connell Wagner PPI
Marshall, Wolfgang	Project Officer	EITO
McCloskey, Kevin	Executive Officer	QUSITAB
McGrath Max	Technical Officer	Tech Comm Simulation
McLean, Greg	Official	Australian Services Union (ASU)
McMullan, Patrick	Executive Assistant	ESAA
Oakley, Tony	Senior Consultant	Power Training Services
Palladino, Tony	Chief Executive Officer	EE-OZ Training Standards
Phillips, David	Consultant	CS Energy, Queensland

Roberts, Bill	Project Manager	WA IEUITC
Ross Robert	Operations	NT Power and Water
Taylor, Bob	Executive Officer	U&LMITAB
Thompson, Carl	Technical Training Officer	Connell Wagner PPI
Thornton, Ken	Operations	Eraring Energy
Van Den Bergen, Bernard	Ezitrain Manager	Energex Ltd
Walker, Christine	Human Resource	Southern Hydro
Waring, Peter	Operations	TXU Torrens Island
Wilson, Russell	Official	ETU
Industry Officers	Observers	DEST

## Acknowledgments

The Board of Directors of the ElectroComms and Energy Utilities Industry Skills Council Ltd, trading as EE-Oz Training Standards, wishes to acknowledge the important developmental roles played by training advisory and delivery organisations, enterprises, employer and employee representatives, industry practitioners, regulatory authorities, individuals and community stakeholders. Without their level of commitment and support this Training Package would not exist in its current form. The Board acknowledges and thanks the following organisations and individuals:

- Electricity Supply Industry Sector Council of the EE-Oz Training Standards Board
- Electricity Supply Industry – National Training Committee (ESI-NTC)
- National Generation Steering Group (NGSG)
- Chairs, Executive Officers, and Members of the EE-Oz Training Standards State and Territory Network (ITABs) and their various sub-committees
- State and Territory Training Authorities
- State and Territory Regulatory Authorities
- OH&S Skills Development and Practical Guidance Team of the National Occupational Health and Safety Commission
- Industry sector registered training organisations and practitioners for contributing to and being supportive of the project
- Industry sector practitioners for contributing to and being supportive of the project.