



**ELECTROCOMMS AND ENERGYUTILITIES
INDUSTRY SKILLS COUNCIL (EE -ISC)**

TRADING AS EE-OZ TRAINING STANDARDS

CONTINUOUS IMPROVEMENT PLAN – 2011 UPDATE

JULY 2011

VERSION 1

CONTENTS

THE TRAINING PACKAGE ENDORSEMENT PROCESS

**EE-OZ TRAINING STANDARDS CONTINUOUS IMPROVEMENT
PLAN – JULY 2011 UPDATE**

CONTINUOUS IMPROVEMENT PLAN – 2011 UPDATE

1. The Training Package Endorsement Process

Endorsement Process Stage	Involvement/Responsibility
Environmental Scan	ISC
Continuous Improvement Plan	ISC
Quality Assurance Panel (QAP)	DEEWR, QAP, ISC Board
Briefing on Scope and Timetable	STAs, Key Stakeholders*
National Consultation & Development	Stakeholders (all jurisdictions)
Industry Validation	Industry Stakeholders TACs, NTAGs, ISC Board
Stakeholder Agreement	STAs, Key Stakeholders*
Case for Endorsement	ISC
Impact Statement	ISC
NQC Endorsement and Publication	DEEWR, NQC

* To be agreed by ISC, in consultation and cooperation with State & Territory Training Authorities.

2. The Continuous Improvement Plan

What is it?

The *Continuous Improvement Plan* (the Plan) sets out the changes that have been identified to be made to the endorsed components of Training Packages to enable them to meet the existing and emerging skill needs of industry and respond to Training Package and other government and industry policy initiatives. The analysis undertaken for the *Environmental Scan* (refer Section 4) informs the Plan and is updated annually by the ISC as a rolling three year plan.

Purpose

The Plan provides an open and transparent approach to the continuous improvement of Training Packages and serves as the guiding document for ISC work on the endorsed components of its Training Packages. It operates as a living document and is posted on the ISC's website (www.ee-oz.com.au).

The Plan enables those involved in the delivery of Training Packages to commence formative planning. For example, in promoting the scope of work and its timelines for completion well ahead of endorsement, jurisdictions have access to intelligence which enables them to plan for implementation and profile delivery with individual Registered Training Organisations. Course Accrediting Bodies will be able to better gauge the need for the continuation of State based courses with a clear picture of what work is underway as part of Training Package continuous improvement.

Audience

The Plan:

- Informs the negotiation of ISCs' funding agreements with the Department and provides sufficient information for the Department to monitor ISC activities
- Informs STAs, Course Accreditation and Registration Bodies, and RTOs of timelines and scope of activities which impact on the existing delivery of Training Packages/accredited courses.

Key Characteristics

- The Plan identifies the activities for the immediate year and, as far as practicable, states the intended outcome(s) of the work. As a three year plan, activities for years two and three are less well defined and subject to refinement over time as industries react to external pressures and re-prioritise their skill needs. The Plan does, however, provide realistic goals given the resources available and prioritisation of competing industry demands.
- From time to time, changes to policy and regulatory environments may necessitate modifications to the Plan. Hence, EE-Oz has ensured that the Plan is sufficiently flexible to incorporate responses within the scope of the ISC's current resources.
- Feedback from the following stakeholders has influenced the development of the Plan: enterprises, employer and employee representatives, licensing and regulatory bodies, STAs, the Department and RTOs.

Content

The Plan includes, in table format (refer Table 1):

- Brief title of each activity
- Industry imperatives for the work and the proposed outcome
- Industry, sector and occupations/skills involved
- Likely qualification levels
- Timelines for start and completion
- State Training Authority and State/Territory Industry Training Advisory Board comments, provided in accordance with the Model 2008 consultative processes.

Broader applicability

The Plan makes clear to stakeholders the Training Package continuous improvement work to be undertaken by EE-Oz Training Standards through its funding agreement with the Department.

3. Training Package Continuous Improvement Plan 2008-11 (2011 Update)

Summary

The Plan responds to input and issues from industry, industry regulators, government and Training Package policy.

The current plan is framed in a complex environment of industry, regulatory, skills formation and Training Package policy development which is demonstrated by the following initiatives which are impacting on the development competency standards at the time of writing:

Industry

- National Occupational Licencing
- Recommendations of the National Apprenticeship Taskforce
- Recommendations of National Resources Sector Employment Taskforce
- Mandatory Renewable Energy Targets
- Renewable Energy Regulations
- Skilled Migration Policy
- Energy Efficiency Policy

Training Package

- Streamlining of Training Packages and Training Package Policy
- Migration of Training Packages to TGA content management System
 - Progress:Currently Endorsed Versions of Training Packages Migrated July 2011
- Definition of Foundation Skills

Issues and policies which are currently being developed which are anticipated to have impacts in the planning period include:

- Skills Australia – VET Roadmap
- Carbon Tax/Carbon Trading legislation
- Energy White Paper

Status of Continuous Improvement

At the time the update of this plan the status of the four Training Packages is as Follows:

Training Package Code	Currently Endorsed Version	Revised Version for Endorsement	Status in the Continuous Improvement Cycle
UEE07	UEE07 V4	UEE11 V1	Draft
UEG06	UEG06 V1.1	UEG11 V1	Undergoing Quality Assurance processes
UET09	UET09 V3	UET11 V1	Draft
UEP06	UEP06 V1.1	UEP11 V1	Undergoing Quality Assurance processes

This reflects the work of industry Technical Advisory Committees, National Training Advisory Committees and the EE-Oz secretariat in developing new and revised Training Package components to meet both industry priorities and NSSC and other government policy objectives.

This indicates that all four packages are in various stages of the continuous improvement process:

Table 1: EE-Oz Training Package Continuous Improvement Plan 2008-11 (2011 Update)

GAS SUPPLY INDUSTRY - New continuous improvement work to be undertaken in 2011

Qualifications

Activity 1: EKAS Review				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
1.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the review of EKAs in the UEG Training Package	Review of Essential Knowledge Skills clauses and relationships within and between units of competence. This work will impact on: <ul style="list-style-type: none"> • Unit Prerequisites • Qualifications • Streamlining of Units of competence • Identification of career pathways 	All Qualifications Start: April 2011 Submission by: December 2011	
1.2	Revise EKAS in existing units and/or develop new units based on stakeholder feedback	The review of EKAS will be coordinated with further work on the development of qualifications within the package and will have a flow on effect to other activities.		
1.3	Review relevant unit pre-requisite qualification structures and packaging rules based on stakeholder input			
1.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
1.5	Include in 2011 Version of Gas Training Package and seek Board approval for submission to NQC.			

Activity 2: Research of Gas Industry Job Roles				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
2.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the identification of GAS industry Job Roles	<p>In 2011 EE-Oz and its Gas Industry Stakeholders collaborated with DEEWR and Australian Bureau of Statistics to identify a project to research job roles and classifications within the Gas Industry Sector.</p> <p>This was in response to:</p> <ul style="list-style-type: none"> • Rapid expansion in the sector • Lack of ANZSCO classifications for Gas Industry workers • Consistent requirement to append Gas industry job roles to various government industry and training initiatives where the selection of target job roles and/or qualifications was done on the basis of ANZSCO classifications. 	<p>All qualifications</p> <p>Start: April 2011</p> <p>Report by: December 2011</p>	
2.2	Participate in the Joint Industry DEEWR Project to identify and classify job roles in the Gas sector			
2.3	Review relevant qualification structures and packaging rules based on research and stakeholder input.			
2.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
2.5	Include in 2011 Version of Gas Training Package and seek Board approval for submission to NQC.			

Activity 3: Review of current and emerging regulatory requirements, codes of practices and applicable standards in response to changing industry needs

Responsible Technical Advisory Committee: Gas TACs

No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
3.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding necessary improvements to the relevant qualification where there are regulatory impacts.	As the Gas industry is undergoing rapid expansion and its role in the economy becomes more important applicable regulatory requirements and standards are being reviewed to ensure safe work and operating environments are maintained and are compliant with best practice industry standards.	Certificate III and higher qualifications Start: April 2011	
3.2	Revise existing units and/or develop new units based on stakeholder feedback	A review will be conducted to ensure that current and emerging regulations, codes of practice and standards are addressed appropriately.	Submission by: December 2011	
3.3	Review relevant qualification structures and packaging rules based on stakeholder input.			
3.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	This review will cover all areas of industry operations and the interaction of the gas sector with other energy sector trades including: <ul style="list-style-type: none"> • Type B Gas Appliances • Instrumentation and control systems • Welding 		
3.5	Include in 2011 Version of Gas Training Package and seek Board approval for submission to NQC.	This work will be coordinated with and supported by other continuous improvement activities including the EKAS review.		

Activity 4: Review of Diploma and Advanced Diploma Level Qualifications				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
4.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the further development of Advanced Diploma and Diploma level Qualifications within the Gas Industry Training Package.	The reviews of EKAS, Gas Industry Job Roles and Pathways to higher qualifications in the GAS Industry Training Package referred to in this plan will inform the review and further development of existing qualifications and the identification for any new qualifications at the Diploma and Advanced Diploma Levels. An area of focus for this work will be Gas System Design	AQF Level: 5 and 6 Start: April 2011 Submission by: December 2011	
4.2	Revise draft units and skill sets based on stakeholder feedback	<ul style="list-style-type: none"> Country Energy has requested EE-Oz, through its formal consultation structures, research the skills and knowledge required for network design and extension with view to reviewing existing units and/or developing new units to address industry's training needs in this occupational area. 		
4.3	Review relevant qualification structures and packaging rules based on stakeholder input			
4.4	Present revised units, new skill sets, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
4.5	Include in 2011 version of Gas Training Package and seek Board approval for submission to NQC.			

Activity 5: Review of pathways to higher qualifications from AQF 2 level				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
5.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the need to identify pathways to higher level qualifications from the newly created Certificate II level qualifications..	<p>The Gas Industry has developed and endorsed a suite of 4 new qualifications at AQF 2. In concert with the EKAS review and the Job Role research, the industry will review and identify pathways from the AQF 2 level qualifications to higher level qualifications with the objectives of:</p> <ul style="list-style-type: none"> • Better matching qualifications to job roles • Identifying suitable Apprenticeships at AQF 3 and higher 	<p>All AQF levels</p> <p>Start: April 2011</p> <p>Submission by: December 2011</p>	
5.2	Revise existing units and develop new units based on stakeholder feedback			
5.3	Review relevant qualification structures and packaging rules based on stakeholder input			
5.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
5.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 6: Competencies and Qualifications Coal Seam Gas Transmission and Distribution				
Responsible Technical Advisory Committee: GAS TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
6.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the skills and knowledge required for areas of work in the Coal Seam Gas sector currently not adequately covered by the Training Package.	Research into the skills and knowledge required for areas of work in the Coal Seam Gas (CSG) sector not adequately covered by the Gas Training Package. The rapidly expanding CSG sector has identified labour and skills demand to the ISC.	AQF Level: numerous Start: April 2011	
6.2	Revise existing units and/or develop new units based on stakeholder feedback	EE-Oz will engage with the sector on its specific skills need to assist in the design, installation and maintenance of CSG, aggregation, processing, transmission and distribution systems and infrastructure.	Submission by: December 2011	
6.3	Review relevant qualification structures and packaging rules based on stakeholder input			
6.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
6.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 7: Streamlining of Training Packages and Migration to TGA				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
7.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding streamlining of Training Packages and the migration of TP content to TGA.	EE-Oz is collaborating with its industry stakeholders, DEEWR, TVET Australia and other ISCs on the streamlining of Training Packages under the NQC's established policy and the migration of content to the Training.gov.au content management system.	All AQF levels	
7.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	These collaborations will result in the restructuring of the Training Package content and will require ongoing consultation with stakeholders to confirm that alterations to the design and presentation of the Training Package do not:	Start: April 2011	
7.3	Review relevant qualification structures and packaging rules based on stakeholder input	<ul style="list-style-type: none"> • Alter the intended outcomes of the units and/or qualifications • Restrict the useability of currently endorsed components. • Is supportive of other continuous improvement activities 	Progress: Currently Endorsed Version Migrated July 2011	
7.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement		Submission by: December 2011	
7.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 8: Inclusion of ACSF Indicators and Foundation Skills				
Responsible Technical Advisory Committee: GAS TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
8.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the inclusion of Australian Core Skills Framework Indicators and Foundation Skills into Gas Training Package Units of Competence.	EE-Oz is collaborating with its industry stakeholders, DEEWR and Literacy and Numeracy experts on the incorporation of Australian Core Skills Framework (ACSF) indicators into units of competency.	All AQF levels Start: April 2011 Submission by: December 2011	
8.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	Under the NQC's established policy on streamlining of Training Packages "foundation skills" are to be included in the restructured "streamlined" units.		
8.3	Review relevant qualification structures and packaging rules based on stakeholder input	EE-Oz has traditionally used the literacy and numeracy levels of the National Reporting System to identify appropriate literacy and numeracy levels for units of competence.		
8.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	With the publication of the ACSF in 2009 EE-Oz commenced a strategy to apply this new system for indicating appropriate literacy/numeracy levels for units.		
8.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.	DEEWR has funded a project for EE-Oz to conduct trial with selected units. EE-Oz is also collaborating with industry stakeholders, DEEWR, TVET Australia and other ISCs on the definition of foundation skills for inclusion in Training Package competencies. EE-OZ sees synergies between the ACSF and Foundations skills work and will continue to work in both.		

ELECTROTECHNOLOGY INDUSTRY - New continuous improvement work to be undertaken in 2011

Activity 9: Energy Efficiency				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC, Refrigeration-Air Conditioning TAC, Renewable - Sustainable Energy TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
9.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to address emerging energy efficiency requirements.	<p>Industry has already identified some new units and Skill Sets in response to emerging energy efficiency requirements.</p> <p>These TACs with their own discipline and under the guidance of the Training Advisory Group will consider further requirements across these disciplines and how the convergent aspects of skill and training these requirements may be best addressed.</p> <p>Of particular concern in this work will be addressing the application of standards contained in the Building Code of Australia with regard to energy efficiency of installations.</p>	<p>AQF Level: 3-6</p> <p>Start: April 2011</p> <p>Submission by: December 2011</p>	
9.2	Revise/Develop units based on research outcomes			
9.3	Review relevant qualification structures and packaging rules based on research outcomes			
9.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
9.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 10: Fuel Cells				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC, Refrigeration-Air Conditioning TAC, Renewable - Sustainable Energy TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
10.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications with regard to the installation and maintenance of Fuels Cells as small generation units.	Natural Gas fuelled Fuel Cells represent a highly efficient energy conversion system which could contribute to a reduced carbon footprint both directly via a reduction in carbon dioxide output and through increased efficiency of energy use. Currently deployment of this technology integrated system of small generation units is preferred.	AQF Level: 3 - 6 Start: April 2011 Submission by: December 2011	
10.2	Revise/Develop units based on research outcomes	Some new Training Package components have been scoped for these and the ISC will respond to further demand for work on this technology. It should be noted that this work will have synergies across the Gas, Electrotechnology and Electricity Supply sectors.		
10.3	Review relevant qualification structures and packaging rules based on research outcomes			
10.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
10.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 11: Renewable Energy - Small Generation Units Up to 10 Kw				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC, Renewable - Sustainable Energy TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
11.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications with regard to the installation and maintenance of small generation units, particularly with regard to applicable national regulatory standards.	<p>The establishment of national regulatory frameworks for Small Generation Units is a significant change in the way renewable energy technologies are viewed.</p> <p>Over time these technologies have become more widely used making the skills for installing and maintaining these in increasing demand.</p> <p>The rapid expansion in take-up of small generation units brought about by government incentives and the increase in capabilities of renewable energy systems requires that a review of existing training standards be undertaken and that the synergies with the generation sector of the electricity supply industry be fully understood.</p>	<p>AQF Level:</p> <p>Start: April 2011</p> <p>Submission by: December 2011</p>	
11.2	Revise/Develop units based on research outcomes			
11.3	Review relevant qualification structures and packaging rules based on research outcomes			
11.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
11.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 12: Renewable Energy - Emergency Isolation				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC, Renewable - Sustainable Energy TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
12.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications in regard to the isolation of renewable energy apparatus in times of emergency.	The rapid expansion of Renewable Energy Systems especially as small generation units in residential areas has raised technical issues with regard to the emergency isolation of these systems especially Photovoltaic (Solar) Panel arrays. These have increased in output capabilities with advances in technology and scalability.	AQF Level: 3-4 Start: April 2011	
12.2	Revise/Develop units based on research outcomes	Isolation in times of emergency e.g. fire and flood has been shown by recent events to be challenging for non-electricians especially emergency service workers.	Submission by: December 2011	
12.3	Review relevant qualification structures and packaging rules based on research outcomes	Industry will engage with relevant emergency services agencies at local, state and territory and national basis in addressing these issues.		
12.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
12.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 13: Industrial Networks				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC, Electronics-Computer Systems TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
13.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications for the installation and maintenance of Industrial Networks	<p>Industrial networks which support a variety of systems and processes are increasingly prevalent. Their integration with electrical and electronic systems including complex uninterruptible power supply systems and remote operations centres in enterprise mission critical installations requires highly skilled staff to install, monitor and maintain such systems.</p> <p>Existing units which are applicable to this area will be reviewed and any new competencies and/or skill sets which are identified will be developed.</p>	<p>AQF Level: 4-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
13.2	Revise/Develop units based on research outcomes			
13.3	Review relevant qualification structures and packaging rules based on research outcomes			
13.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
13.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 14: Vendor Mapping				
Responsible Technical Advisory Committee:				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
14.1	Research and conduct national consultations with relevant stakeholders to identify opportunities for the mapping of vendor training to new and/or existing competencies and/or Skill Sets.	Successful mapping of vendor training assists both industry and individuals maximise the benefits of post-trade training on OEM systems by aligning such training to units and/or Skill Sets thus enabling trainees to gain national recognition of their competencies and build pathways to higher level qualifications.	AQF Level: 3-6 Start: April 2011	
14.2	Revise/Develop units based on research outcomes	Undertaking such mapping requires partnership with both OEM training providers and industry users of such training to ensure that there is confidence in the mapping of both training and assessment within the vendor program sufficient to be recognised via an identified endorsed competency.	Submission by: December 2011	
14.3	Review relevant qualification structures and packaging rules based on research outcomes			
14.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	Industry will build on existing experience with pilot mapping projects to establish the required mapping processes.		
14.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 15: National Licences – Electrotechnology Trades				
Responsible Technical Advisory Committee: All TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
15.1	Continue to research and conduct national consultations with relevant stakeholders with regard to the development of competencies required to implement national licencing for electrotechnology trades	National Licencing is due to be introduced on 1 July 2012. Working in conjunction with the National Occupational Licensing Authority and its advisory committees, the ISC will coordinate the further development of competencies and qualifications to reflect newly defined regulatory requirements.	AQF Level: 3 Start: April 2011 Submission by: December 2011	
15.2	Revise/Develop units based on research outcomes			
15.3	Review relevant qualification structures and packaging rules based on research outcomes			
15.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
15.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 16: Integrated systems				
Responsible Technical Advisory Committee: Electrical-Lifts-Data Communication TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
16.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to address integrated systems	The use of integrated systems to manage and supervise the operation of electrical apparatus is increasing, particularly in the residential sector as technology advances and appliances and components become more “intelligent” in terms both their operation and management capabilities.	AQF Level: 3 -6 Start: April 2011	
16.2	Revise/Develop units based on research outcomes	Undertaking further research and development in this area will allow industry to review relevant existing competencies and identify and develop any new competencies which are required to keep pace with changes in both technology and work practices.	Submission by: December 2011	
16.3	Review relevant qualification structures and packaging rules based on research outcomes			
16.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
16.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 17: Automation and Industrial Computer Systems				
Responsible Technical Advisory Committee: Instrumentation and Industrial Control TAC and Electronics-Computer Systems TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
17.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications in the area of Automation and Industrial Computer Systems	<p>Increases in the efficiency and productivity of industry are becoming more dependent on the ability of technology to lift productivity. The use of automated systems and industrial computer systems are essential in achieving these aims.</p> <p>The Electronics-Computer Systems TAC and the Instrumentation and Industrial Control TAC will consider how the units and qualifications in their coverage may be further developed to address emerging requirements.</p> <p>The convergent, complementary and supplementary nature of the units in these two areas will be a major consideration.</p>	<p>AQF Level: 4 -6 Start: April 2011</p> <p>Submission by: December 2011</p>	
17.2	Revise/Develop units based on research outcomes			
17.3	Review relevant qualification structures and packaging rules based on research outcomes			
17.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
17.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 18: EKAS Recoding				
Responsible Technical Advisory Committee: All Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
18.1	Research and conduct national consultations with relevant stakeholders to determine appropriate grouping and recoding of EKAS.	<p>In parallel with ongoing reviews of units of competency within the Electrotechnology Training Package, the essential knowledge and associated skills for each unit will be reviewed and recoded in accord with the industry agreed schema.</p> <p>This work will contribute to the migration to the NQC's streamlined unit template.</p>	<p>AQF Level: 1 -6</p> <p>Start: April 2011</p> <p>Submission by: December 2011</p>	
18.2	Revise/Develop units based on research outcomes			
18.3	Review relevant qualification structures and packaging rules based on research outcomes			
18.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
18.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 19: Sector skills Identification/Work Outcome				
Responsible Technical Advisory Committee: All Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
19.1	Research and conduct national consultations with relevant stakeholders to determine the appropriate alignment of qualifications with sector skills needs and job roles.	<p>Given that job roles within the industry are evolving, as part of ongoing reviews of qualifications with the Electrotechnology Training Package, all technical advisory committee will be required to consider the alignment of the qualifications within their coverage in terms of:</p> <ul style="list-style-type: none"> • Skills required in the sector • Alignment of qualification with work outcomes 	<p>AQF Level: 1-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
19.2	Revise/Develop units based on research outcomes			
19.3	Review relevant qualification structures and packaging rules based on research outcomes			
19.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
19.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 20: Rationalisation and use of imported units				
Responsible Technical Advisory Committee: All Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
20.1	Research and conduct national consultations with relevant stakeholders to determine opportunities for rationalisation and the importation of units.	<p>The changes brought about by the NQC's Flexibility formula for qualification packaging rules provides and opportunity for the review of imported units within qualifications and the identification of any further opportunities to:</p> <ul style="list-style-type: none"> • Import units for other sources to increase flexibility • Rationalise qualifications by using imported units • Value units which has been imported by RTOs and enterprises under the NQC's packaging rules formula. 	<p>AQF Level:</p> <p>Start: April 2011</p> <p>Submission by: December 2011</p>	
20.2	Revise/Develop units based on research outcomes			
20.3	Review relevant qualification structures and packaging rules based on research outcomes			
20.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
20.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 21: Streamlining of Training Packages and Migration to TGA				
Responsible Technical Advisory Committee: All Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
21.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding streamlining of Training Packages and the migration of TP content to TGA.	EE-Oz is collaborating with its industry stakeholders, DEEWR, TVET Australia and other ISCs on the Streamlining of Training Packages under the NQC's established policy and the migration of content to the Training.gov.au content management system.	All AQF levels Start: April 2011	
21.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	These collaborations will result in the restructuring of the Training Package content and will require ongoing consultation with stakeholders to confirm that alterations to the design and presentation of the Training Package do not:	Progress: Currently Endorsed Version Migrated July 2011	
21.3	Review relevant qualification structures and packaging rules based on stakeholder input	<ul style="list-style-type: none"> • Alter the intended outcomes of the units and/or qualifications 		
21.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	<ul style="list-style-type: none"> • Restrict the useability of currently endorsed components. • Is supportive of other continuous improvement activities 	Submission by: December 2011	
21.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

ELECTRICITY SUPPLY INDUSTRY – TRANSMISSION, DISTRIBUTION & RAIL

New continuous improvement work to be undertaken in 2011

Activity 22: Career Pathways Certificate IV, Diploma and Advanced Diploma				
Responsible Technical Advisory Committee: All TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
22.1	Research and conduct national consultations with relevant stakeholders to determine how post-trade qualifications may be aligned to enhance the development of career pathways within the ESI-TDR sector.	<p>The re-structuring of AQF 3 level qualifications to incorporate the requirements of national licencing for ESI-TDR trades means that higher level qualifications will need to take account of these re-structured qualifications and the more specific pathways that may flow from new regulatory requirements at AQF 3.</p> <p>This activity will target the identification of suitable pathways to higher level qualifications across the disciplines with the ESI-TDR industry including:</p> <ul style="list-style-type: none"> • Design • Rail Traction • System Operation • Transmission and Distribution • Protection and Testing • Substations and Infrastructure • Transmission, Distribution, Cable Jointing and Live Lines 	<p>AQF Level: 4-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
22.2	Revise/Develop units based on research outcomes			
22.3	Review relevant qualification structures and packaging rules based on research outcomes			
22.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
22.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 23: Certificate II Pathways to higher quals				
Responsible Technical Advisory Committee: Vegetation Control TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
23.1	Research and conduct national consultations with relevant stakeholders to determine pathways from the specialised AQF 2 qualifications with the ESI-TDR sector higher level AQF III and post-trade qualifications to underpin workforce development strategies within the ESI-TDR industry.	<p>The number of specialised AQF 2 level qualifications within the ESI TDR Training Package has increased and there is a need to identify qualification pathways for holders of entry level qualifications to progress to higher level qualifications within a specific discipline or across disciplines.</p> <p>This activity will identify and test possible pathways and develop appropriate Training Package components to support these.</p>	<p>AQF Level: 3-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
23.2	Revise/Develop units based on research outcomes			
23.3	Review relevant qualification structures and packaging rules based on research outcomes			
23.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
23.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 24: Incorporation of Pathways for Metering units				
Responsible Technical Advisory Committee: Vegetation Control TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
24.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications related to the incorporation of competencies for the installation, maintenance and management of electricity and revenue metering systems and apparatus.	Metering units identified in previous activities will need to be incorporated into selected qualifications to facilitate the development of pathways to higher level qualifications and the alignment of qualification outcomes to appropriate job roles.	AQF Level: 4-6 Start: April 2011 Submission by: December 2011	
24.2	Revise/Develop units based on research outcomes			
24.3	Review relevant qualification structures and packaging rules based on research outcomes			
24.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
24.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 25: Smart Grids and Grid Connected Renewable Energy systems				
Responsible Technical Advisory Committee:				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
25.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support the deployment of smart grid technologies	<p>The rapid uptake of renewable energy systems as both small and large scale generation systems has given impetus to smart grid initiatives which are also expanding into smart appliance technologies.</p> <p>This activity will consider the identification of competencies to support the deployment of these technologies at various scales and the of alignment of qualification outcomes to related job roles.</p>	<p>AQF Level: 4-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
25.2	Revise/Develop units based on research outcomes			
25.3	Review relevant qualification structures and packaging rules based on research outcomes			
25.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
25.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 26: Isolation of Renewable Energy Systems				
Responsible Technical Advisory Committee: Transmission and Distribution TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
26.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support to ensure that both large and small scale renewable energy systems are able to be effectively isolated.	<p>The rapid uptake of renewable energy systems, particularly photovoltaic's, as both small and large scale generation systems and the emergence of medium scale installations in commercial/industrial settings requires that the ESI Sector address the requirements for effective isolation of these systems to permit network maintenance and extension work to be carried out and to enable network operators to respond appropriately in times of emergency.</p> <p>The development of competencies to address the installation, operation and maintenance of effective isolations systems for renewable energy systems of various scales will be investigated.</p> <p>This activity will also consider appropriate the incorporation of appropriate work practices for isolation of various types of renewable energy systems to ensure individual and public safety.</p>	<p>AQF Level: 4-6 Start: April 2011</p> <p>Submission by: December 2011</p>	
26.2	Revise/Develop units based on research outcomes			
26.3	Review relevant qualification structures and packaging rules based on research outcomes			
26.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
26.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 27: Distributed Generation				
Responsible Technical Advisory Committee:				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
27.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support the deployment of smart grid technologies	The generation sector has changed rapidly over a short period with government incentives for the installation of distributed renewable energy driving a diversity of systems at various scales. This activity will complement other activities which target specific aspects of renewable technologies for the ESI sector.	AQF Level: 3-6 Start: April 2011	
27.2	Revise/Develop units based on research outcomes	This activity will seek to capture other issues which may be raised by:	Submission by: December 2011	
27.3	Review relevant qualification structures and packaging rules based on research outcomes	<ul style="list-style-type: none"> • The impacts and interactions of new technologies with existing systems 		
27.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	<ul style="list-style-type: none"> • The interactions between various new technologies • The effects of aggregation of renewable energy systems of various scales 		
27.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC	This activity will consider the identification of competencies to support the deployment of these technologies at various scales and the of alignment of qualification outcomes to related job roles.		

Activity 28: Peak Demand - Energy Markets and infrastructure development				
Responsible Technical Advisory Committee:				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
29.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support the use of strategies and technologies for Peak Demand Management.	International research has show the active management of peak demand can be an effective carbon pollution reduction strategy with benefits to energy efficiency, energy markets and the levels of infrastructure investment. Implementation of strategies for peak demand management are dependent upon technologies, systems and work practices on the supply side and consumer behaviour on the demand side.	AQF Level: 4-6 Start: April 2011 Submission by: December 2011	
29.2	Revise/Develop units based on research outcomes			
29.3	Review relevant qualification structures and packaging rules based on research outcomes	This activity will consider the identification of competencies to support the integration of appropriate peak demand strategies into network management systems and technologies, work practices and consumer behaviour.		
29.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
29.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC	This activity will have synergies with other activities associated with smart technologies and renewable energy systems		

Activity 29: Refresher Training				
Responsible Technical Advisory Committee: Transmission and Distribution TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
29.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets for refresher training in the areas of Polarity Testing and Live Line Work to facilitate increased mobility and portability of skills.	Feedback from recovery and restoration works in response to recent natural disasters Floods and Cyclone in Queensland and Victoria has recommended that further refresher training competencies be developed to cover polarity testing and live line work. This will increase the utility and flexibility of deployment across jurisdictional and network boundaries.	AQF Level: 4-6 Start: April 2011 Submission by: December 2011	
29.2	Revise/Develop units based on research outcomes			
29.3	Review relevant qualification structures and packaging rules based on research outcomes			
29.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
29.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 30: Streamlining of UET ESI- TDR Training Package and Migration to TGA				
Responsible Technical Advisory Committee: All ESI TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
30.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding streamlining of Training Packages and the migration of TP content to training.gov.au – Training Package Content Management System.	EE-Oz is collaborating with its industry stakeholders, DEEWR, TVET Australia and other ISCs on the Streamlining of Training Packages under the NQC’s established policy and the migration of content to the Training.gov.au content management system.	All AQF levels Start: April 2011	
30.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	These collaborations will result in the restructuring of the Training Package content and will require ongoing consultation with stakeholders to confirm that alterations to the design and presentation of the Training Package do not:	Progress: Currently Endorsed Version Migrated July 2011	
30.3	Review relevant qualification structures and packaging rules based on stakeholder input	<ul style="list-style-type: none"> Alter the intended outcomes of the units and/or qualifications 	Submission by: Ongoing	
30.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	<ul style="list-style-type: none"> Restrict the useability of currently endorsed components. Is supportive of other continuous improvement activities 		
30.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 31: EKAS Recoding				
Responsible Technical Advisory Committee: All ESI TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
31.1	Research and conduct national consultations with relevant stakeholders to determine appropriate grouping and recoding of EKAS.	<p>In parallel with ongoing reviews of units of competency within the UET ESI TDR Training Package, the essential knowledge and associated skills for each unit will be reviewed and recoded in accord with the industry agreed schema.</p> <p>This work will contribute to the migration to the NQC's streamlined unit template.</p>	<p>AQF Level: 1 -6</p> <p>Start: April 2011</p> <p>Submission by: Ongoing</p>	
31.2	Revise/Develop units based on research outcomes			
31.3	Review relevant qualification structures and packaging rules based on research outcomes			
31.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
31.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 32: Inclusion of ACSF Indicators and Foundation Skills				
Responsible Technical Advisory Committee: All ESI-TDR TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
32.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the inclusion of Australian Core Skills Framework Indicators and Foundation Skills into the Training Package Units of Competence.	EE-Oz is collaborating with its industry stakeholders, DEEWR and Literacy and Numeracy experts on the incorporation of Australian Core Skills Framework (ACSF) indicators into units of competency.	All AQF levels Start: April 2011 Submission by: December 2011	
32.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	Under the NQC's established policy on streamlining of Training Packages "foundation skills" are to be included in the restructured "streamlined" units.		
32.3	Review relevant qualification structures and packaging rules based on stakeholder input	EE-Oz has traditionally used the literacy and numeracy levels of the National Reporting System to identify appropriate literacy and numeracy levels for units of competence.		
32.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	With the publication of the ACSF in 2009 EE-Oz commenced a strategy to apply this new system for indicating appropriate literacy/numeracy levels for units.		
32.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.	DEEWR has funded a project for EE-Oz to conduct trial with selected units. EE-Oz is also collaborating with industry stakeholders, DEEWR, TVET Australia and other ISCs on the definition of foundation skills for inclusion in Training Package competencies. EE-OZ sees synergies between the ACSF and Foundations skills work and will continue to work in both.		

ELECTRICITY SUPPLY INDUSTRY – GENERATION SECTOR

Continuous improvement work to be undertaken in 2011

Activity 33: Renewable Energy Large scale Generation				
Responsible Technical Advisory Committee: Renewable Energy TAC				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
33.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support the deployment and maintenance of large scale renewable energy generation systems.	Ongoing development of the renewable energy technologies and current government policy is driving industry to increase the rate of take-up of new and existing large scale renewable energy technologies.	AQF Level: 3-6 Start: April 2011 Submission by: December 2011	
33.2	Revise/Develop units based on research outcomes	This activity will continue to engage the generation sector as it adapts and adopts renewable energy technologies to: <ul style="list-style-type: none"> • Meet consumer demand 		
33.3	Review relevant qualification structures and packaging rules based on research outcomes	<ul style="list-style-type: none"> • Respond to and support government and industry policy 		
33.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	<ul style="list-style-type: none"> • Achieve economies of scale • Address maintenance issues as installed systems infrastructure ages. 		
33.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC	<ul style="list-style-type: none"> • Integrate traditional and renewable generation sources 		

Activity 34: Gas Fired Electricity Generation				
Responsible Technical Advisory Committee: Maintenance and Operations TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
34.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications to support the deployment and maintenance of Gas Fired electricity generation systems.	Natural Gas and Coal Seam Gas is an abundant energy source for the Australian economy. Whilst still a greenhouse gas producing technology Gas Fired electricity generation has a lower carbon footprint than coal fired systems and represents a transitional fuel in the move to a lower carbon economy. Gas Fired generation is able to provide both peaking and base load supply.	AQF Level: 3-6 Start: April 2011 Submission by: December 2011	
34.2	Revise/Develop units based on research outcomes	The review of existing competencies applicable to the deployment of gas fired and identification of new Training Package components which will better address the needs of those using and developing in this sector.		
34.3	Review relevant qualification structures and packaging rules based on research outcomes			
34.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
34.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 35: Cert II Pathways to higher qualifications				
Responsible Technical Advisory Committee: All Generation TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
35.1	Research and conduct national consultations with relevant stakeholders to determine the need for further development of competencies and/or Skill Sets or qualifications which will provide pathways from AQF II qualifications to higher level qualifications.	The restructuring of qualifications under the NQC's Flexibility and streamlining initiatives and the identification of new Training Package components for the various emerging technologies being used in the generation sector means that existing pathways from entry level qualifications. The activity will review existing components and undertake to identify any additional components required to support appropriate pathways for progression from AQF 2 level qualifications to higher level qualifications across the disciplines within the generation Training Package.	AQF Level: 3-6 Start: April 2011 Submission by: December 2011	
35.2	Revise/Develop units based on research outcomes			
35.3	Review relevant qualification structures and packaging rules based on research outcomes			
35.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
35.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 36: Streamlining of UEP ESI- Generation Training Package and Migration to TGA				
Responsible Technical Advisory Committee: All ESI TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
36.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding streamlining of Training Packages and the migration of TP content to training.gov.au – Training Package Content Management System.	EE-Oz is collaborating with its industry stakeholders, DEEWR, TVET Australia and other ISCs on the streamlining of Training Packages under the NQC’s established policy and the migration of content to the Training.gov.au content management system.	All AQF levels Start: April 2011	
36.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	These collaborations will result in the restructuring of the Training Package content and will require ongoing consultation with stakeholders to confirm that alterations to the design and presentation of the Training Package do not:	Progress: Currently Endorsed Version Migrated July 2011	
36.3	Review relevant qualification structures and packaging rules based on stakeholder input	<ul style="list-style-type: none"> • Alter the intended outcomes of the units and/or qualifications 	Submission by: Ongoing	
36.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	<ul style="list-style-type: none"> • Restrict the useability of currently endorsed components. • Is supportive of other continuous improvement activities 		
36.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 37: EKAS Recoding				
Responsible Technical Advisory Committee: All Generation TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
37.1	Research and conduct national consultations with relevant stakeholders to determine appropriate grouping and recoding of EKAS.	<p>In parallel with ongoing reviews of units of competency within the UEP ESI Generation Training Package, the essential knowledge and associated skills for each unit will be reviewed and recoded in accord with the industry agreed schema.</p> <p>This work will contribute to the migration to the NQC's streamlined unit template.</p>	<p>AQF Level: 1 -6</p> <p>Start: April 2011</p> <p>Submission by: Ongoing</p>	
37.2	Revise/Develop units based on research outcomes			
37.3	Review relevant qualification structures and packaging rules based on research outcomes			
37.4	Present new/revised units and revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
37.5	Include in 2011 Version of Training Package and seek Board approval for submission to NQC			

Activity 38: Inclusion of ACSF Indicators and Foundation Skills				
Responsible Technical Advisory Committee: All ESI-Generation TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
38.1	Conduct national consultations with relevant industry, training and regulatory stakeholders regarding the inclusion of Australian Core Skills Framework Indicators and Foundation Skills into the Training Package Units of Competence.	EE-Oz is collaborating with its industry stakeholders, DEEWR and Literacy and Numeracy experts on the incorporation of Australian Core Skills Framework (ACSF) indicators into units of competency.	All AQF levels Start: April 2011 Submission by: December 2011	
38.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	Under the NQC's established policy on streamlining of Training Packages "foundation skills" are to be included in the restructured "streamlined" units.		
38.3	Review relevant qualification structures and packaging rules based on stakeholder input	EE-Oz has traditionally used the literacy and numeracy levels of the National Reporting System to identify appropriate literacy and numeracy levels for units of competence.		
38.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement	With the publication of the ACSF in 2009 EE-Oz commenced a strategy to apply this new system for indicating appropriate literacy/numeracy levels for units.		
38.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.	DEEWR has funded a project for EE-Oz to conduct trial with selected units. EE-Oz is also collaborating with industry stakeholders, DEEWR, TVET Australia and other ISCs on the definition of foundation skills for inclusion in Training Package competencies. EE-OZ sees synergies between the ACSF and Foundations skills work and will continue to work in both.		

Activity 38: Renewable Energy Inspections				
Responsible Technical Advisory Committee: Relevant ESI-TDR and Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
38.1	Conduct national consultations with relevant industry, training and regulatory stakeholders to determine appropriate training package components across the UET and UEE Training Packages for Renewable Energy Inspections	The advent of new regulations for national renewable energy regulations and an accompanying inspection and compliance regimes means that appropriate training standards need to be reviewed/developed to ensure that a skilled workforce is available to carry out this work in this expanding sector.	All AQF levels Start: April 2011	
38.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	Whilst this regime applies principally to small generation units the regulations acknowledge the roles of energy network providers, state and territory regulators and applicable standards.	Submission by: December 2011	
38.3	Review relevant qualification structures and packaging rules based on stakeholder input	This work will focus on achieving the appropriate mix of Training Package components within the various UET and UEE Training Packages to provide skills for the inspections of renewable energy systems as required by the regulations.		
38.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
38.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			

Activity 38: Pathways for switching competencies				
Responsible Technical Advisory Committee: Relevant ESI-TDR, ESI - Generation and Electrotechnology TACs				
No.	Scope of Work, Industry, Sector & Occupations/Skills	Industry Imperatives for the Work	Qual Level & Timeline for work	State/Territory Training Authority comment/suggestions
38.1	Conduct national consultations with relevant industry, training and regulatory stakeholders to determine appropriate training package components and pathways across the UET, UEP and UEE Training Packages for HV and LV switching.	HV and LV switching are activities which are carried out in various situations across the electricity supply and industrial settings including in the resources sector. Competencies for these activities exist in the UEE, UEP and UET Training Packages and have varying pre-requisites and training pathways.	All AQF levels Start: April 2011 Submission by: December 2011	
38.2	Revise/restructure existing units and/or develop new units based on stakeholder feedback	The identification of common pathways across the sectors will greatly assist in reducing.		
38.3	Review relevant qualification structures and packaging rules based on stakeholder input			
38.4	Present revised units, new units, revised qualification structures and packaging rules to NTAG for consideration, finalisation and endorsement			
38.5	Include in 2011 Version of the Gas Training Package and seek Board approval for submission to NQC.			