



Australian  
Industry and  
Skills Committee

# UEE ELECTRICITY METERS

Case for Change

Name of allocated IRC(s): Electrotechnology  
Name of the SSO: Australian Industry Standards

## 1. Administrative information

For a list of the products proposed to be reviewed as part of this project, please see **Attachment A**.

Name of IRC(s):	Electrotechnology
Name of SSO:	Australian Industry Standards

### 1.1 Name and code of Training Package(s) examined to determine change is required

UEE Electrotechnology Training Package

## 2. The Case for Change

For information on the job roles to be supported through the proposed qualifications updates, enrolments data, completion rates, and the number of RTOs delivering these qualifications please see **Attachment B**.

### 2.1 Rationale for change

This Case for change covers installing, configuring, and commissioning whole current electricity meters.

The current unit *UEEEL0013 Install, set up and commission interval metering* is considerably out of date with respect to legislative, equipment and system requirements. After review and update, the unit will satisfy legislative requirements and support installation of advanced digital (smart) meters, and the replacement of older-style basic or accumulation meters (currently being phased out) with digital meters.

The revised unit will be coupled with UETTDRRF06 Perform rescue from a live LV panel which is an essential Safety requirement when working on electricity meters. The ESI Transmission, Distribution and Rail Industry Reference Committee (IRC) are submitting a case for change to review this unit. The Electrotechnology IRC hopes that some current minor barriers to their using the unit will be removed as part of this review. If these cannot be addressed, a variation request will be submitted seeking to develop a UEE electrical rescue unit.

The unit *UEENEEG171A Install, set up and commission interval metering* became *UEEEL0013 Install, set up and commission interval metering* when the UEE11 Training Package was transitioned to UEE in 2020. This was a transition only project and did not allow for review of content. Now that UEE components are compliant with the 2012 Standards for Training Packages, an overdue review of this essential content is required to ensure it reflects contemporary industry practice.

### 2.2 Evidence for change

The Australian Energy Market Commission released a Consultation Paper in December 2020 as part of a *Review of the Regulatory Framework for Metering Services*. It contends that “smart meters remain a key enabler of energy sector transformation”. It describes smart meter penetration at currently around 20% (varies by jurisdiction and distributor), and that the percentage of smart meters in the National Energy Market (NEM) has been steadily increasing for the past five years. In October 2020, there were 1.04 million smart meters installed across the NEM. As this growth continues Electricians must have up-to-date skills and knowledge to support meter installation, configuration and commissioning.

### 2.3 Consideration of existing products

An existing unit of competency is being reviewed to bring it in line with current industry practice.

### 2.4 Approach to streamlining and rationalisation of the training products being reviewed

The unit proposed for review in this project covers specific technical skills and knowledge required by electricians to work safely in compliance with legislated requirements. Unfortunately streamlining or rationalisation of this content is not possible given the nature of the work functions covered.

### 3. Stakeholder consultation

#### 3.1 Stakeholder consultation undertaken in the development of Case for Change

*For a full list of industry-specific stakeholders that actively participated in the stakeholder consultation process undertaken to develop the Case for Change, please see **Attachment C**.*

The need for review of the metering unit was initially referred to the IRC by a National Meter Provider working group which identified the shortfalls of the existing unit (UEEEL0013) in meeting contemporary practice and complying with current legislation.

Development of the Case for Change involved consultation with stakeholders via the following communication mechanisms:

- Stakeholder webinars
- Face to Face meetings (Virtual)
- AIS Website
- Stakeholder networks
- Teleconferences
- Emails

The work was outlined during a webinar which included representatives from all States/Territories and regional areas of those jurisdictions. Feedback on the proposed work was invited during the webinar.

The work was posted in the Engagement Hub of the AIS website and feedback invited.

Notification of the opportunity to provide feedback through the Electrotechnology webinar, or in writing through the Engagement Hub, was provided to over 1,100 Electrotechnology sector stakeholder subscribers.

#### 3.2 Evidence of Industry Support

*For a list of the issues raised by stakeholders during consultation and the IRC's response to these, please see **Attachment D**.*

No objections to the development of the proposed units were raised during the consultation process. There is strong support of the need for both.

The work was outlined during a webinar conducted for the Electrotechnology industry on 26 March 2021 which had 80 participants. No questions about the work were posed in the Q & A section of the webinar. The proposed work was also detailed in the Engagement Hub of the AIS website for stakeholders to review and provide feedback, and no issues were raised in response.

#### 3.3 Proposed stakeholder consultation strategy for project

*Note: For a full list of industry-specific stakeholders who are planned to be contacted to participate in the stakeholder consultation process undertaken for this project, please see **Attachment E**.*

Key Industry stakeholders will be identified in consultation with industry regulators, associations, and the Electrotechnology IRC.

A general invitation to participate on the project Technical Advisory Committee (TAC) will be sent to all Electrotechnology subscribers. Targeted invitations will also be sent to known technical experts.

AIS, on behalf of the Electrotechnology IRC, will promote the opportunity to contribute through stakeholder webinars, the AIS website, EDM's, AIS newsletter and public notifications. Stakeholders will also be notified of key milestones throughout the life of the project, including requests for feedback on draft materials.

Stakeholder engagement and consultation will occur over the life of the project via a combination of the following methods:

- Direct engagement: Face to face consultations, Site visits, Phone, emails, video/teleconferencing meetings
- Industry forums and conferences
- Webinars
- Online feedback mechanisms
- STA direct engagement

Given the size of Australia and all stakeholders are not centrally located in major cities, a range of consultation strategies will be used so stakeholders in rural, regional and remote areas, and in smaller jurisdictions have multiple avenues to provide feedback.

This includes but is not limited to, online/video consultation, email correspondence and promotional activity via targeted communications including social media. A recently developed Engagement hub on the AIS website provides a one stop portal for information about how all stakeholders can participate and inform Training Package development work.

#### 4. Licencing or regulatory linkages

The work covered by the metering unit being reviewed can only be undertaken by Licenced Electricians.

State/Territory Electrical Regulators will be directly consulted throughout development to ensure unit content aligns to their requirements.

#### 5. Project implementation

##### 5.1 Prioritisation category

It is proposed that this review be progressed as a Fast-track project and will be published together with several other projects which industry needs fast-tracked.

The need for a fit for purpose unit and Skill Set to cover the rapid roll-out of smart meter installations needs to be expedited to ensure a fit for purpose unit and Skill Set.

##### 5.2 Project milestones

Key project milestones include:

- AISC project approval – June 2021
- Technical Advisory Committee (TAC) formed – July 2021
- Draft 1 consultation – August – September 2021
- Stakeholder validation – September – October 2021
- Quality Assurance – October – November 2021
- Final consultation with states and territories – November - December 2021
- CfE submitted for approval – 31 December 2021

### 5.3 Delivery or implementation issues

None have been identified to date.

## 6. Implementing the Skills Minister's Priority reforms for Training Packages (2015 and October 2020)

The project submission will support industry's expectations for training delivery and provide a revised Companion Volume Implementation Guide (CVIG) to support delivery of the new products.

The unit to be reviewed is clearly targeted at those who hold, or are seeking, an Electrician's Licence. As such it is very vocationally focussed and Electrical regulation prohibits completion of it by other than the target cohort.

A skill set containing the new unit will be created for upskilling of already qualified Electricians.

This Case for Change was agreed to by the Electrotechnology IRC

Name of Chair

Larry Moore

Signature of Chair



Date

14 May 2021

## Attachment A: Training Package components to change

Australian Industry Standards

Contact details: David Dixon, Chief Operating Officer

Date submitted: 14 May 2021

Note: Qualifications where the code is marked with \* **are not being reviewed** but contain units that are being updated as part of this project. AIS will update these Qualifications as Training Package maintenance function.

Project number	Project Name	Qualification / Unit / Skillset	Code	Title	Details of last review (endorsement date, nature of this update transition, review, establishment)	Change Required
2	Electricity Meters	Qualification	UEE50320	Diploma of Electrical and Refrigeration and Air Conditioning	05/Oct/2020 - Transition	Update
2	Electricity Meters	Qualification	UEE30820	Certificate III in Electrotechnology Electrician	05/Oct/2020 - Transition	Update
2	Electricity Meters	Qualification	UEE42020	Certificate IV in Electrical - Photovoltaic systems	05/Oct/2020 - Transition	Update
2	Electricity Meters	Skill Set	UEESS99993	Installing and Commissioning Whole Current Electricity Meters Skill Set	NA	New
2	Electricity Meters	Unit	UEEEL0013	Install, set up and commission interval metering	05/Oct/2020 - Transition	Update

## Attachment B: Job role, enrolment information, the number of RTOs currently delivering these qualifications

Please set out the job roles to be supported through the updated qualifications, enrolment data over the past three years in which data is available for each qualification, completion rates for each qualification, and the number of RTOs delivering these qualifications.

Job role	Qualification to be updated to support the job role	Enrolment data (for the past three years)	Completion rates (for the past three years)	Number of RTOs delivering (for the past three years)
342111 Airconditioning And Refrigeration Mechanic	UEE50320 Diploma of Electrical and Refrigeration and Air Conditioning	0	0	0
341111 Electrician (General)	UEE30820 Certificate III in Electrotechnology Electrician	101294	16394	8
341111 Electrician (General)	UEE42020 Certificate IV in Electrical - Photovoltaic systems	913	137	0
	UEESS99993 Installing and Commissioning Whole Current Electricity Meters Skill Set	NA	NA	NA
	UEEEL0013 Install, set up and commission interval metering	1455	1423	19

### Attachment C: List of stakeholders that actively participated in the consultation process of the Case for Change

Name of Stakeholder	Title	Organisation	Organisation type (e.g. Employer, peak body, union, RTO, regulator)	Jurisdiction/town/city (e.g. NSW/Sydney)
<b>State Training Authorities</b>		State Training Authorities	State Training Authorities	All States and Territories
<b>Frances Parnell</b>	Manager	Department of Training and Workforce Development	Other	WA / Perth
<b>Neda Aleksic</b>	Industry Engagement - VET product development	ISACNT	Other	NT / Darwin Nt
<b>Elizabeth Joannou</b>	Training Programmes Manager	Global Sustainable Energy Solutions	RTO	NSW / Sydney
<b>Jakes Jacobs</b>	Industry Workforce Planner	Energy Skills Queensland	Other	QLD / Brisbane
<b>Veronica Mauri</b>	Training and Safety Consultant	V Mauri Training & Safety Consulting	Other	QLD / Hollywell
<b>Paul Govett</b>	Competency Specialist - S&C	V/Line Corporation	Employer	VIC / Bendigo
<b>Greer Novak</b>	Principal Advisor	Electrical Safety Office	Regulator	QLD / Bowen Hills
<b>Kevin O'Shea</b>	President	RACCA	Peak body	NSW / Sydney
<b>Jamie Hall</b>	Technical Support Training Officer	Mitsubishi Electric Australia	Employer	NSW / Rydalmere



<b>Brett Willowhite</b>	Team Leader Electrotechnology & Plumbing	Charles Darwin University	RTO	NT / Darwin
<b>Nate James</b>	RTO Compliance Officer	V/Line Corporation	Employer   RTO	VIC / Melbourne
<b>Geoff Corkery</b>	Training Specialist	Powerlink	Employer	QLD / Brisbane
<b>Joshua Macphail</b>	ElectroTechnology Teacher	TAFE Queensland SkillsTech	RTO	QLD / Bracken Ridge
<b>Cindy Maret</b>	Education, Advisor and Assessor	Energy Safe Victoria	Regulator	VIC / Tarneit
<b>Jesse Collins</b>	Compliance Officer	Energy Safe Victoria	Regulator	VIC / Glen Waverley
<b>Karen Ruppert</b>	RTO Manager	Catholic Education Archdiocese Canberra Goulburn	RTO	ACT   NSW / Manuka
<b>Steve Gale</b>	Teacher ICT	The Gordon TAFE	RTO	VIC / Geelong
<b>Claire Bennett</b>	Manager - Learning and Development	A.G.Coombs	Employer	VIC / Moorabbin
<b>Benjamin Hawkins</b>	Policy Manager	AMCA	Peak body	VIC / Burwood
<b>Katie Tunnah</b>	Apprenticeship Program Coordinator	APA Group	Employer	NSW   NT   QLD   SA   VIC   WA / Southbank
<b>Sue Sheppard</b>	General Manager RTO	Electro Group Training QLD	Employer   RTO	QLD / Rocklea

<b>Ryan Flack</b>	Project Engineer/RTO Trainer	Global Sustainable Energy Solutions	RTO	NSW / Sydney
<b>Peter B</b>	Assessor	Vetassess	RTO	VIC / Melbourne
<b>Norma Angeloni Tomaras</b>	Product Manager Electrotechnology	TAFE NSW	RTO	NSW / Mount Druitt
<b>Mark Burgess</b>	National Apprenticeship Officer	ETU	Union	VIC / Gherang
<b>Peter Collins</b>	Program Leader - Electrical	Melbourne Polytechnic	RTO	VIC / Heidelberg
<b>Travis Hayes</b>	Education Manager	Chisholm Institute	RTO	VIC / Melbourne
<b>Pravneel Singh</b>	Technical Manager	Daikin Australia	Employer	NSW / Sydney
<b>Gregory Kempton</b>	Trainer	CIT	RTO	ACT / Canberra
<b>Maria Zarkovic</b>	RTO Manager	V?line Corporation	RTO	VIC / Melbourne
<b>Sue Sizer</b>	Senior Compliance Officer, Education and Assessmen	Energy Safe Victoria	Regulator	VIC / Melbourne
<b>Alexander Newman</b>	CEO	Centre for U	RTO	VIC / Melbourne
<b>Angelo Scanu</b>	Manager	Victoria University	RTO	VIC / Melbourne, Victoria
<b>Jason Aquilina</b>	Electro Teacher	Sunshine College - Harvester Campus	RTO	VIC / North Sunshine

<b>Marie Previte</b>	Skills and Training	Edmund Rice Education Australia - Office	RTO	QLD / Brisbane
<b>Matt Houston</b>	Manager - Field Operations	AG Coombs Servicings	Employer	VIC / Port Melbourne
<b>Harry Melzer</b>	Teacher	Harvester Technical College	RTO	VIC / Melbourne
<b>Darron Febey</b>	Teacher	Tastafe	RTO	TAS / Devonport
<b>John Ingram</b>	Teacher	Melb. Polytechnic	RTO	VIC / Melbourne
<b>Supritha S</b>	Skills Outlook Officer	TAFE NSW	RTO	NSW / Sydney
<b>Neil Roberts</b>	State Inspector - Engineering	Safework NSW	Regulator	NSW / Parramatta
<b>Steve Bryant</b>	Project Specialist	Box Hill Institute	RTO	VIC / Tarneit
<b>Robert Tischler</b>	Electrical Teacher	Boxhill Institute	Employer	VIC / Melbourne
<b>Lachlan Searle</b>	Teacher	Federation TAFE	RTO	VIC / Ballarat
<b>Gayathri Dhanashekar</b>	Education Manager	Chisholm Institute	RTO	VIC / Dandenong, Victoria
<b>Tim Sealey</b>	Assistant Director Analytics and Policy	ACT Govt	Other	ACT / Canberra
<b>Darren Ballard</b>	Electrotechnology Teacher	Federation Tafe	RTO	VIC / Ballarat

<b>Chris Stark</b>	Product Innovation Lead	NECA Education & Careers	RTO	VIC / Carlton
<b>Ian Harrison</b>	Resource developer/teacher	NECA Education & Careers	RTO	VIC / Carlton
<b>Wayne Jones</b>	Technical Training Manager	Melbourne Water	Employer	VIC / Melbourne
<b>Tony Palladino</b>	Executive Officer	NSW U&E ITAB	Other	NSW / Beakfast Point
<b>Luke O'Sullivan</b>	Director	Livewire Training and Consultancy	RTO	NSW / Rozelle
<b>James Charlton</b>	Electrical Teacher	Chisholm Tafe	RTO	VIC / Frankston
<b>Mick Cullen</b>	EO	Future Energy Skills	Peak body	VIC / Clayton, Melbourne
<b>Craig Turner</b>	Teacher	TAFENSW	RTO	NSW / Glendale
<b>Tobias Keating</b>	Developer	NECA Training	Employer   RTO   Other	ACT   NSW   QLD / Chullora
<b>Patrick Scharf</b>	Head of Electrotechnology Faculty	Australian Trade Training College	RTO	ACT   NSW   NT   QLD   SA   VIC / Banyo
<b>Jared Barclay</b>	Electrical training and assessment	NECA	Peak body	NSW / Sydney
<b>David Muller</b>	Head Teacher	TAFE NSW	RTO	NSW / Granville
<b>Jenny James</b>	Teacher	Swinburne Tafe	RTO	VIC / Wantirna
<b>Kyle Mounser</b>	Head Teacher, Electrotechnology	TAFE NSW	RTO	NSW / Newcastle

<b>Gary Ainsworth</b>	Head Teacher Electrotechnology	TAFE NSW	RTO	NSW / Miller
<b>Neil Waixel</b>	teacher	swinburne	RTO	VIC / Wantirna, Melbourne
<b>Adam Riley</b>	Teacher	TAFE	RTO	NSW / Tamworth
<b>Greg Keep</b>	Compliance Specialist	Energy Queensland	Employer   RTO	QLD / Brisbane
<b>Tim Bolam</b>	Electrical Reliability Leader	Tomago Aluminium Co. Pty Ltd	Employer	NSW / Newcastle
<b>Blake Mortimer</b>	Engineering support manager	Daikin	Employer	NSW / Chipping Norton
<b>Ian Eggleton</b>	TEACHER	TAFE	Employer	NSW / Newcastle
<b>Nathanael Out</b>	Teacher	Swinburne University	RTO	VIC / Wantirna
<b>Ted Jenkinson</b>	Electrical Teacher	Swinburne	RTO	VIC / Melbourne
<b>Jo O'Mahony</b>	Trainer and Assessor	GOTAFE	RTO	VIC / Shepparton
<b>Dorothy Bakens</b>	Education Consultant	McGraw Hill Australia Pty Ltd	Other	VIC / Richmond
<b>Ian Maguire</b>	Educator	Swinburne0	RTO	VIC / Melbourne
<b>Nick Achelles</b>	Education Consultant	McGraw Hill Education	Other	NSW / Sydney
<b>Russell Feldtmann</b>	Trainer and Assessor	Goulburn Ovens Institute of Tafe (GOTAFE)	RTO	VIC / Shepparton

<b>Steve Hall</b>	General Manager	ECAWA College of Electrical Training	RTO	WA / Perth
<b>Troy Bond</b>	Industry Consultant	UEEA Training Council	Other	WA / Perth
<b>Manuel Barragan</b>	Manager, Strategy and Policy	Artibus Innovation	Other	TAS / Sandy Bay
<b>Mark Redding</b>	Vocational Educator, Apprentice master, Lineworker	Evoenergy	Employer	ACT
<b>Electrotechnology IRC</b>	Various	Various	Employers, Associations, Unions, Regulators	National

## Attachment D: Issues Raised by Stakeholders during consultation on the development of the Case for Change

Stakeholder Type	Issues Raised	IRC's Response to Issues Raised
<p align="center"><b>Employers (Non-IRC)</b></p>	<p>In regards to LV panel rescue i feel having a second unit created for electricians will create more of an issue as far as refresher training for staff especially if they are a dual trade employee. In Canberra we have dual trade workers who may be electricians and a cable jointer, for the example that worker could have task around smart meters in a fault scenario (as Evoenergy does not install meters). Having the one course for LV that covers other parts of the electrical industry that may not be specific to distribution and transmission isn't a bad thing as it could be seen as upskilling the work force. LV panel rescue should be a unit than accommodates the electrical industry as a whole.</p>	<p>Initially it was planned to develop a UEE electrical Rescue unit. Based on this feedback the new unit was removed from the project and discussion with ESI TRD representative about adapting their unit to make it appropriate for both sectors so it can be used in the Skill Set.</p>
<p align="center"><b>Training Boards/Other</b></p>	<p>From WA UEEA. Western Australian stakeholders agree with the proposed Cases for Change for the UE Training Packages. No stakeholders have reported issues with the proposals.</p>	<p>Feedback supports the need for the review.</p>
<p align="center"><b>State and Territory Training Authorities (STAs)</b></p>	<p><b>WA STA.</b> We note that Regulators will be engaged in the process therefore we support the Case for Change</p>	<p>Feedback supports the need for the review.</p>
<p align="center"><b>State and Territory Training Authorities (STAs)</b></p>	<p>The <b>Victorian STA</b> is unable to support the case for Change proceeding to the AISC for approval until the following issues are addressed:</p>	<p>The updating of any qualifications that contain the unit being reviewed will be done in accordance with Training products policies as follows:</p>

	<ul style="list-style-type: none"> <li>Proposed endorsement process for revised existing and new units of competency. The proposal to include one (1) revised and one (1) new unit of competency in existing qualifications as a minor change is not supported.</li> <li>Additional qualifications that include the unit proposed for revision. The existing unit proposed for revision (UEEEL0013 - Install, set up and commission interval metering) is also packaged in nine (9) UEE qualifications that are not proposed for an update.</li> </ul>	<ul style="list-style-type: none"> <li>Any instances where the updated unit appears in the core of qualifications, those qualifications will be submitted for endorsement.</li> <li>Where the unit appears as a general elective in qualifications they will be updated as a minor change as is permitted by section 6.2 of the TPDEPP</li> </ul>
<b>Industry Reference Committee (IRC) Representatives</b>	Nil	NA
<b>Peak Industry Bodies</b>	Nil	NA
<b>Regulators</b>	Nil	NA
<b>Registered Training Organisations (RTOs)</b>	Nil	NA
<b>Unions</b>	Nil	NA
<i>Please add other categories as appropriate</i>	Nil	NA



## Attachment E: List of stakeholders to be contacted as part of the development of the Case for Endorsement

Relevant Stakeholders identified in attachment C and the following:

Name of Stakeholder	Title	Organisation	Organisation type (e.g. Employer, peak body, union, RTO, regulator)	Jurisdiction/town/city (e.g. NSW/Sydney)
<b>State Training Authorities</b>		State Training Authorities	State Training Authorities	All States and Territories
<b>State Electrical Regulators</b>	Various	Various	Regulator	All States and Territories
<b>RTOs with scope to deliver current qualifications</b>	Various	Various	RTO	All States and Territories
<b>State Industry Training Bodies/Boards/Councils</b>	Various	Various	Other	All States and Territories
<b>Employers (small/medium/large)</b>	Various	Various	Employers	All States and Territories
<b>Peak Industry Bodies</b>	Various	Various	Associations	National and State bodies
<b>Australian Defence force</b>	Various	Australian Defence Force	Employer	National
<b>Electrotechnology IRC</b>	Various	Various	Employers, Associations, Unions, Regulators	National