



Australian
Industry and
Skills Committee

UEE ASSESS AND REPORT ON SMOKE CONTROL FEATURES

Name of allocated IRC: 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

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 addresses the skills required for assessing and reporting on a building's smoke control features of mechanical services systems. It involves development of one new Unit of Competency and one new Skill Set. The unit will be added as an elective in several Refrigeration and Airconditioning qualifications.

Release 3.0 of the UEE Training Package included a unit to cover the installation and maintenance of this equipment, which includes fire dampers, smoke dampers, smoke and heat vents, and mechanical services air handlers. The proposed new unit and Skill Set cover the assessment and reporting on the same equipment which is also required under Essential Services Fire Measures legislation.

Recent disasters such as Grenfell Towers in the U.K and other recent commercial building fires in Australia have resulted in tragedies or significant destruction of property. These disasters have driven all Australian Regulators to prioritise commonality of standards, regulations and skills development in Design, Installation and Maintenance practices in the commercial sector to restore confidence in the Building Sector. Every commercial building which is higher than 3 storeys high must be designed, installed and maintained in accordance with stringent codes and practices.

2.2 Evidence for change

There have been recent changes to Australian Regulations and Standards related to the design, installation, maintenance, and assessment of equipment in commercial buildings that have fire separated compartments. The design and installation of Essential Services Fire Measures must meet legislation and Australian Standard requirements. Assessors who do building condition reports require specific competencies to understand the regulatory framework and specific reporting requirements.

Technicians who assess and report on air handling equipment for fire and smoke control systems, must be competent to do the work safely and accurately. Building Owners carry the responsibility of ensuring that the individuals they engage under a service contract have the knowledge and skill to do the work and to provide reports to the owners.

The new unit and Skill Set will enable employers to meet current regulatory requirements,

2.3 Consideration of existing products

There are no existing products that cover this recent legislative requirement.

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

This case for change is for one new unit which covers a recent regulatory need. As such rationalisation is not possible.

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**.*

During the review of the UEE11 Electrotechnology Training Package to transition it to the 2012 Standards for Training Packages, the Air-conditioning and Mechanical Contractors Association (AMCA) proposed the development of new Units of Competency to meet recent changes to Australian Regulations and Standards for Essential Services Fire Measures.

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

A broader project 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.

Feedback was sought from all State Training Authorities with none opposing the project. Most provided written support which has been included in Appendix D.

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**.*

The Technical Advisory Committee (TAC) that originally proposed the work included representatives from: Australian Refrigeration Council, ARA Group Services, Refrigeration and Air-conditioning Contractors' Association, Australian Refrigeration Mechanics Association, Energy Skills Queensland, Dawson's Tech Services, Australian Refrigeration Equipment Manufacturers Association, National Electrical and Communications Association (NECA), Mitsubishi Electric, Royal Australian Navy, Superior Training Centre, TAFE NSW, Canberra Institute of Technology, Charles Darwin University, Peer, RMIT, Box Hill Institute, Skillstech Australia, TAFE QLD, South Metropolitan TAFE – WA, TAFE SA, Tas TAFE, Axial Training.

No objections to the proposed review were raised during the consultation process. There is strong support for the development because it addresses a gap in covering regulatory requirements.

The work was outlined during a webinar conducted for the Electrotechnology industry on 26 March 2021 which had 80 participants. 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

This project directly responds to Essential Services Fire Measures legislation/regulation.

5. Project implementation

5.1 Prioritisation category

This project will be completed as a fast-track project conducted over a six-month period.

5.2 Project milestones

Key project milestones include:

- AISC project approval – November 2021
- Technical Advisory Committee (TAC) formed – December 2021
- Draft 1 consultation – February 2022
- Stakeholder validation - March 2022
- Quality Assurance – April 2022

- Final consultation with states and territories - May 2022
- CfE submitted for approval - May 2022

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.

Consideration of imported units will be a focus of this project.

Existing Skill Sets will be updated, and possibly new ones created if required.

This Case for Change was agreed to by the Electrotechnology IRC

Name of Chair

Larry Moore

Signature of Chair



Date

8 October 2021

Attachment A: Training Package components to change

Australian Industry Standards

Contact details: David Dixon, Chief Operating Officer

Date submitted: 9 September 2021

Project number	Project Name	Qualification/ Unit / Skillset	Code	Title	Details of last review (endorsement date, nature of this update transition, review, establishment)	Change Required
7	Assess and report on smoke control features	Unit	New unit	Assess and report on smoke control features of mechanical services systems	NA	New
7	Assess and report on smoke control features	Skill Set	New skill set	Assess and report on mechanical services systems	NA	New

The following qualifications are not being reviewed, but the Technical Advisory Committee will determine which of them it is appropriate for the new unit to be added as a general elective via a minor update in accordance with section 6.2 of the Training Package Development and Endorsement Process Policy.

Project number	Project Name	Qualification/ Unit / Skillset	Code	Title	Details of last review (endorsement date, nature of this update transition, review, establishment)	Change Required
7	Assess and report on smoke control features	Qualification	UEE40520Y	Certificate IV in Electrical - Air Conditioning Split Systems	05/Oct/2020 - Transition	Possible Update
7	Assess and report on smoke control features	Qualification	UEE42720Y	Certificate IV in Air Conditioning and Refrigeration Servicing	05/Oct/2020 - Transition	Possible Update

Project number	Project Name	Qualification/ Unit / Skillset	Code	Title	Details of last review (endorsement date, nature of this update transition, review, establishment)	Change Required
7	Assess and report on smoke control features	Qualification	UEE42820Y	Certificate IV in Air-conditioning Systems Energy Management and Control	05/Oct/2020 - Transition	Possible Update
7	Assess and report on smoke control features	Qualification	UEE42920Y	Certificate IV in Refrigeration and Air Conditioning Systems	05/Oct/2020 - Transition	Possible Update
7	Assess and report on smoke control features	Qualification	UEE50320Y	Diploma of Electrical and Refrigeration and Air Conditioning	05/Oct/2020 - Transition	Possible Update
7	Assess and report on smoke control features	Qualification	UEE51220Y	Diploma of Air Conditioning and Refrigeration Engineering	05/Oct/2020 - Transition	Possible Update
7	Assess and report on smoke control features	Qualification	UEE62520Y	Advanced Diploma of Air Conditioning and Refrigeration Engineering	05/Oct/2020 - Transition	Possible 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	UEE40520Y Certificate IV in Electrical - Air Conditioning Split Systems	0	0	1
342111 Airconditioning and Refrigeration Mechanic	UEE42720Y Certificate IV in Air Conditioning and Refrigeration Servicing	31	6	2
342111 Airconditioning and Refrigeration Mechanic	UEE42820Y Certificate IV in Air-conditioning Systems Energy Management and Control	0	0	1
342111 Airconditioning and Refrigeration Mechanic	UEE42920Y Certificate IV in Refrigeration and Air Conditioning Systems	28	12	1
342111 Airconditioning and Refrigeration Mechanic	UEE50320Y Diploma of Electrical and Refrigeration and Air Conditioning	0	0	1
342111 Airconditioning and Refrigeration Mechanic	UEE50320Y Diploma of Electrical and Refrigeration and Air Conditioning	0	0	1
342111 Airconditioning and Refrigeration Mechanic	UEE51220Y Diploma of Air Conditioning and Refrigeration Engineering	326	91	5
342111 Airconditioning and Refrigeration Mechanic	UEE62520Y Advanced Diploma of Air Conditioning and Refrigeration Engineering	2	0	1

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

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

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

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

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

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

Steve Hall	General Manager	ECAWA College of Electrical Training	RTO	WA / Perth
Troy Bond	Industry Consultant	UEEA Training Council	Other	WA / Perth
Manuel Barragan	Manager, Strategy and Policy	Artibus Innovation	Other	TAS / Sandy Bay
Jennifer Mason	Senior Policy Advisor, Education and training	Victorian Building Authority	Regulator	Vic
Mark Vender	Publishing and Strategic Communications	AIRAH	Peak Industry Bodies	National
Electrotechnology IRC	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
State and Territory Training Authorities (STAs)	<p>Vic</p> <ul style="list-style-type: none"> The proposed new unit and skill set covers the assessment and reporting on the same equipment included in installation and maintenance equipment units included in Release 3.0 suggesting this unit should have been developed at that time. This unit covers a higher level of responsibility than should be required of an apprentice and recommend this unit should be included at AQF IV or above. In consideration of existing products, please reference 22329VIC Course in Heating, Ventilation and Air Conditioning Services. <p>In recognition that this proposal addresses the immediate regulatory requirements and higher level of safety sought by industry, the Victorian STA supports the case for change to introduce a new unit and skill set to meet these needs.</p>	<p>Industry requested that the 'installation and maintenance' unit and skill set be developed first. Hence sequence of development.</p> <p>The suggested AQF level of qualification/s the unit be placed in, and the 22329VIC accredited course, will be referred to the project TAC for their consideration.</p>
	<p>ACT</p> <p>Advise d they would support the majority STA view so support is provided as all support the CfC</p>	<p>NA</p>
	<p>NSW</p> <p>NSW supports based on advice from our ITAB</p>	<p>NA</p>
	<p>Tas</p> <p>Providing any issues raised by Tasmanian stakeholders have been addressed, Skills Tasmania supports the UEE Case for Change (CfC) related to refrigeration</p>	<p>No issues have been raised by Tasmanian stakeholders</p>

	and air-conditioning (RAC) – a project to develop one new Unit of Competency and one new Skill Set that will cover ‘assessing and reporting on a building’s smoke control features of mechanical services systems’.	
	WA We circulated the Case for Change for the new unit and skill set covering ‘assessing and reporting on a building’s smoke control features of mechanical services systems’ and we have received no feedback noting we do not use qualifications in this area. The WA STA has no issues with the Case for Change.	NA
	SA Supported previous one that had these components. No response on this one.	NA
	QLD Queensland supports the revised Case for Change	NA
	NT The NT STA supported the original Case for Change and has no objection to this one.	NA
Training Boards/Other	NIL	NA
Industry Reference Committee (IRC) Representatives	NIL	NA
Employers (Non-IRC)	NIL	NA
Registered Training Organisations (RTOs)	NIL	NA
Unions	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)
State Training Authorities		State Training Authorities	State Training Authorities	All States and Territories
State Electrical Regulators	Various	Various	Regulator	All States and Territories
RTOs with scope to deliver current qualifications	Various	Various	RTO	All States and Territories
State Industry Training Bodies/Boards/Councils	Various	Various	Other	All States and Territories
Employers (small/medium/large)	Various	Various	Employers	All States and Territories
Peak Industry Bodies	Various	Various	Associations	National and State bodies
Australian Defence force	Various	Australian Defence Force	Employer	National
Electrotechnology IRC	Various	Various	Employers, Associations, Unions, Regulators	National