



Australian
Industry and
Skills Committee

GAS SUPPLY INDUSTRY SKILLS

Name of allocated IRC(s): Gas

Name of the SSO: Australian Industry Standards

NOTE: Please use template as provided. Do not make structural changes, such as adding branding or changing headings

Instructions

- This template provides clear instructions regarding the information the AISC looks for in a Case for Endorsement. The AISC will only approve work where it is satisfied with the evidence provided.
- The Case for Endorsement is a concise and coherent document written in plain English that assures the AISC that the training package component(s) submitted for approval meet the requirements of the:
 - Standards for Training Packages 2012
 - Training Package Products Policy
 - Training Package Development and Endorsement Process Policy
 - industry consensus, to the extent possible.
- When drafting a Case for Endorsement refer to the Training Package Development and Endorsement Process Policy.
- Only when industry and the SSO are satisfied that the training package is fit for purpose, in terms of content and quality, is it forwarded to the AISC Secretariat for distribution to the AISC.
- The completed template (excluding attachments) should be no more than 10 pages in length.

*****PLEASE DELETE INSTRUCTIONS PAGE AND GREEN TEXT PRIOR TO SUBMISSION*****

1. Administrative details of the Case for Endorsement

Refer to **Attachment A** for the title and code for each of the training package components that are submitted for approval, and an indication of whether these are updated (including equivalence or non-equivalence status), new or deleted products

1.1 Case for Change details

This Case for Endorsement (CfE) encompasses Training Package development activity proposed in the 2021 Gas Industry Skills Forecast.

Activity Order reference: AIS/TPD/2021/018

Activity Start Date: November 2021 Activity Finish Date: 1 September 2022

On 24 November 2021, the Commonwealth, through the Department of Education and Training, executed an Activity Order with Australian Industry Standards (AIS) for UEG Gas Industry Training Package review and development work.

This CfE finalises UEG Gas Industry Training Package review and development work undertaken through the Activity Order.

On behalf of the Gas Industry Reference Committee (IRC) and in accordance with the Activity Order, this CfE covers:

- **Revision of five existing qualifications**
- **Revision of 69 existing Units of Competency**
- **Development of 1 new Unit of Competency**

The 69 Units of Competency had not been reviewed since 2012 and the five qualifications contained weighting points and packaging rules that created barriers of entry into the industry and difficulties for Registered Training Organisations (RTO's). The scope of this project was to update both the Units of Competency and qualifications to ensure that they met the contemporary needs of the gas supply industry. Part of this was ensuring that the required skills and knowledge of hydrogen was included in relevant Units of Competency. It also involved the rationalisation of duplicative Units of Competency where appropriate.

1.2 Timeframes and delays

The projects were delivered in accordance with the agreed timeframe.

2. Changes to training products and how these will meet the needs of industry

Refer to **Attachment B** for information on how the proposed updates to qualifications will better support job roles in industry.

The **Gas Industry** Training Package has been updated to include one new Unit of Competency (Control industrial Gas storage/processing operations), four revised Qualifications, and 59 revised Units of Competency to meet the contemporary needs of the gas supply industry.

The updates will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it. The streamlined packaging rules will make them more efficient for RTOs to deliver and create clearer training pathways.

The expansion of liquefied petroleum gas (LPG) Units of Competency to broader industrial gas Units of Competency will better reflect industry needs and practices which should also promote greater enrolment in these Units of Competency. The introduction within relevant Units of Competency of the requirement of knowledge evidence for a complete range of industrial or combustible gases will not only ensure that gas supply industry workers are properly skilled across the expanding range of gases that are being introduced, such as hydrogen and blends varieties of gas, but is done so in a way that it builds on their existing skills and without the need for gas type specific Units of Competency that would dilute the skills base across the gas supply industry and create an unnecessary learning load on workers.

The removal of weighting points and new packaging rules introduced to all qualifications in the UEG Gas Industry Training Package has allowed for the reduction of qualifications from five to four through the merging of the Certificate IV in Gas Control Operations into Certificate IV in Gas Supply Industry Operations. This will expand career pathways within the industry for gas controllers and make transition into gas control job roles simpler.

The thorough review of the Units of Competency resulted in the identification of opportunities to merge Units of Competency with duplicative or complementary skills undertaken by the same job role.

Stakeholder consultation strategy

Refer to **Attachment C** for:

- list of stakeholders that actively participated in consultation on the project
- summary feedback provided by stakeholder type and the IRCs response to this feedback
- summary of issues raised during stakeholder consultation and the IRCs response to these issues

3.1 Identification of stakeholders

At the start of the project, AIS opened expressions of interest for those wanting to participate on the Technical Advisory Committee (TAC), via email update to general subscribers. AIS approached enterprises and stakeholders identified through forums, seminars, and other various engagement activities. AIS also sought nominations from members of the Gas IRC. Industry stakeholders from across all sectors of the gas supply industry covering most states and territories were represented in either the TAC or the IRC in relation to the project.

3.2 Strategies for engaging stakeholders

Throughout the development, AIS used the following communications strategies to ensure relevant stakeholders were consulted:

- Phone, video/teleconference meetings and emails to key gas industry stakeholders
- IRC member communications to their relevant industry networks using various methods
- Establishment of a TAC from industry to validate the changes being made to the Training Package products
- Emails to State and Territory Training Authorities (STAs) and VET regulators
- Email alerts on project progress to stakeholders providing project information (398 registered subscribers to the UEG Gas Industry Training Package)
- Formal feedback was received from 13 stakeholders representing enterprises, state/territory government bodies, training organisations and STAs.

As part of the AIS communication strategy, key industry stakeholders' views were sought, and all feedback presented to the TAC during initial drafting, redrafting and finalisation of products.

Stakeholder feedback was considered and discussed with TAC members and all decisions made at TAC meetings were documented. In addition, the AIS communication strategy entailed keeping all key industry stakeholders regularly informed of the expected changes and impacts during the consultation periods.

TAC engagement activities started from December 2021 and June 2022. Public consultation periods were:

- 31 March 2022 – 3 May 2022
- 14 June 2022 – 28 June 2022

In addition to the above, the following technical regulators, safety regulators and energy policy organisation were directly contacted to ensure their awareness of the project and proposed changes to the Gas training package.

Organisation	Role	Jurisdiction
Department of Justice Tasmania	Technical Regulator	Tas
Swinburne University / Victorian Hydrogen Hub	Research	Vic
Future Fuels CRC	Research	National
National Energy Resources Australia	Research	National
Australian Hydrogen Council	Industry Body	National
Clean Energy Council	Industry Body	National
Clean Energy Regulator	Technical Regulator	National
WorkSafe Tasmania	Safety Regulator	Tas
Hydrogen South Australia	Energy Policy	SA
Department of Environment, Land Water and Planning Victoria	Energy Policy	Vic
Department of Jobs, Tourism, Science and Innovation	Energy Policy	WA
Hydrogen Secretariate Queensland	Energy Policy	Qld
Office of the Tasmanian Economic Regulator	Energy Policy	Tas
Energy NSW	Energy Policy	NSW
Australian Energy Market Operator	Energy Policy	National
WorkSafe Victoria	Safety Regulator	Vic
WorkSafe - Department of Mines, Industry Regulation and Safety	Safety Regulator	WA
Office of the Technical Regulator South Australia	Technical Regulator	SA
SafeWork SA	Safety Regulator	SA
SafeWork NSW	Safety Regulator	NSW
EnergyCo NSW	Technical Regulator	NSW

3.3 Participation by different types of stakeholders

Industry stakeholders represented in the TAC for the project, either came from regional areas across states/territories and jurisdictions or represented their wider networks from these areas. These included operators of regional gas storage and processing facilities, hydrogen plants and distribution networks.

3. Evidence of industry support

4.1 Industry support

Industry support is evidenced by comments received throughout the public consultation and validation process, and letters of support which confirm the draft materials address the skills needs to support workforce development. These letters of support have been received from a wide range of industry stakeholders, including enterprises such as ATCO, BOC, Jemena, AGL; training organisations such as Enertrain; industry associations, such as Energy Skills Queensland and regulatory bodies such as Energy Safe Victoria and Resources Safety & Health Queensland. The Gas IRC signed off on this Case for Endorsement on xxxx.

4.2 Engagement of States and Territories

All STAs were provided with all draft products and advised of the opportunity to provide feedback through the AIS website on the CfE over the period:

- 15 August 2022 to 26 August 2022

Relevant Industry Training Advisory Bodies (ITAB's) were consulted throughout the process.

The following table shows the level of support following STA consultation:

State/Territory	Organisation	Response
Australian Capital Territory	Skills Canberra	
New South Wales	Department of Education	
Northern Territory	Department of Trade, Business and Innovation	
Queensland	Department of Employment, Small Business and Training	
South Australia	Department for Innovation and Skills	
Tasmania	Skills Tasmania	
Victoria	Department of Education and Training	
Western Australia	Department of Training and Workforce Development	

4.3 Mitigation strategies

Key stakeholders are aware of the expected impacts of the Training Package changes. During public consultation periods, additional information was provided regarding the changes to packaging rules to qualifications and the merging of Units of Competency. Training providers were consulted to provide their input around this discussion.

Two of the four qualifications are not equivalent to the ones they supersede; however, industry feedback indicates that the changes will improve both the accessibility and delivery of the qualifications. Five Units of Competency are non-equivalent to those they supersede. Four of these are due their application being expanded from LPG to apply to all industrial gases. One is a result of the merging of 2 Units of Competency. Mapping attachments are included in this release to show what changes have been made to the reviewed Units of Competency.

4.4 Letters of industry support

Letters of support are provided as part of the submission.

4. Dissenting views

5.1 Dissenting views/issues raised

No dissenting views have been raised.

5.2 Rationale for approval

Industry supports this CfE.

5. Reports by exception

6. Mandatory Workplace Requirements

Refer to **Attachment D** for a list of the units of competency, the MWR, the rationale for this, and evidence of employer support for this requirement.

There are no mandatory workplace requirements in the Training Package products developed in this CfE.

7. Implementation of the new training packages

8.1 Implementation issues

Due to the strict permit controls surrounding the equipment and processes in the production of both industrial and combustible gases, assessment for some of the Units of Competency will need to occur in a field environment, which only exists with operators and manufacturers. This will not be an impediment to the implementation of the Training Package as only employees of enterprises involved in active projects have a need to undertake this training.

It is already common within the gas industry for candidates to have working facilities available to complete their training with RTO's working with gas suppliers. Because of the equipment used and the regulated environment of the gas industry, there are many assessments tasks that can only be undertaken in a field environment.

Not all the revised Units of Competency are equivalent to the units they supersede. Four of these are due to their application being expanded from LPG to apply to all industrial gases. This change better reflects the current and future needs of gas storage operations and is expected to assist in the greater use of these Units of Competency. One is a result of the merging of two Units of Competency. In a contemporary gas supply industry environment, these two Units of Competency are delivered by the same job role in an integrated manner. Accordingly, there was no longer a need for two separate Units of Competency and the change will not create any implementation issues.

8.2 Potential for traineeship or apprenticeships

The qualifications and the associated Units of Competency included in this CFE may be used as the basis for an apprenticeship. This is dependent on factors such as funding agreements and availability in each state or territory.

8.3 Occupational and licensing requirements

There are no licensing requirements contained in the revised qualifications and Units of Competency, or in the new Unit of Competency.

8.4 Extension to transition period

Where the need for an extension to the transition period is identified for training products that are the subject of this Case for Endorsement, the SSO will apply to the relevant regulator for an extension to transition, to mitigate the identified impact on other training products, particular student cohorts or industry business needs

No extension to the transition period is requested.

8. Quality Assurance

The Case for Endorsement meets the following requirements:

Standards for Training Packages 2012	✓
Training Package Products Policy	✓
Training Package Development and Endorsement Process Policy	✓
Companion Volume Implementation Guide is available and quality assured.	✓

Copies of quality assurance reports are included in **Attachment F**.

9. Implementation of the Minister's priorities in training packages

Refer to **Attachment E** for information on no enrolment and low enrolment qualifications reviewed as part of this project, and the outcomes of this review (i.e. product proposed for deletion or retention). Attachment D also includes the rationale for retaining no and/or low enrolment products when this is the proposal.

Please include an explanation of how approval of the proposed training products will support the reform priorities for training packages agreed by skills ministers in November 2015 and October 2020:

Streamlining/rationalisation of training products	The removal of weighting points and new packaging rules introduced to all qualifications in the UEG Gas Industry Training Package has allowed for the reduction of qualifications from five to four through the merging of the Certificate IV in Gas Supply Industry Operations and Certificate IV in Gas Control Operations. The thorough review of the Units of Competency resulted in the identification of opportunities to merge Units of Competency with duplicative or complementary skills undertaken by the same job role.
	It was the stated objective of the project to reuse and rationalise qualifications and Units of Competency where possible and this objective has been successfully achieved.
	There is one new Unit of Competency included in the project which was only added as a change request after extensive analysis indicated that a safety gap existed with industrial gases that could not be accommodated within any existing Units of Competency.
	The project has resulted in: <ul style="list-style-type: none"> • one less qualification • nine less Units of Competency,

<p>Ensure that more information about industry's expectations of training delivery is available to training providers to improve their delivery and to consumers to enable more informed course choices</p>	<p>Throughout the revision and development of the Units of Competency and qualifications, industry's expectation was to ensure flexible delivery was available to enable all industry sub-sectors to utilise the qualifications and Units of Competency.</p> <p>It is also expected that the outcomes delivered will address industry job role expectations and compliance with regulatory requirements.</p> <p>The UEG Gas Industry Training Package Companion Volume Implementation Guide (CVIG) describes additional requirements applicable to the learner's characteristics and describes industry's expectations for training delivery.</p>
<p>Ensure the training system better supports individuals to move more easily between related occupations</p>	<p>Qualifications within the UEG Gas Industry Training Package do not contain entry requirements, thus there are no barriers for learners wanting to take up qualifications at different levels. Each qualification contains a broad range of skills and knowledge, both native and imported Units of Competency. This allows those coming from different industry sub-sectors to gain the qualifications and move to different roles within the industry. A concerted effort has been made to minimise prerequisites in the UEG Gas Industry Training Package, leaving the majority of the Units of Competency free from them.</p>
<p>Improve the efficiency of the training system by creating units that can be owned and used by multiple industry sectors</p> <p>Foster greater recognition of skill sets and work with industry to support their implementation</p>	<p>The updates to the UEG Gas Industry Training Package will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it. The repackaged qualifications will make them more efficient for RTOs to deliver and more attractive for people to enrol in. The expansion of LPG Units of Competency to broader industrial gas Units of Competency will better reflect industry needs and practices which should also promote greater enrolment in these Units of Competency.</p>

10. A link to the full content of the proposed training package component(s)

The AISC should be provided with a link to the full, developed Training Package component(s) to be approved under the Case for Endorsement.

A link to the Training Package components proposed for endorsement is included here.

This Case for Endorsement was agreed to by the [name] IRC

Name of Chair

Signature of Chair

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Date

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Attachment A: Training products submitted for approval

Please set out in the table below, the training products submitted for approval, including showing whether this is an updated, new or deleted product.

Training Product Name		Type	For existing products, equivalence/non-equivalence status	For updated products, rationale for equivalence/non-equivalence status
Qualifications				
UEG20122 Certificate II in Gas Supply Industry Operations		Updated	Equivalent	Weighting points removed, number of elective groups reduced, and a number of Units of Competency removed from elective groups and superseded Units of Competency updated. Occupational outcome has not changed.
UEG30122 Certificate III in Gas Supply Industry Operations		Updated	Equivalent	Weighting points removed, number of elective groups reduced, duplicative Units of Competency removed from the core and number of Units of Competency removed from elective groups and superseded Units of Competency updated. Occupational outcome has not changed.
UEG40222 Certificate IV in Gas Supply Industry Operations		Updated	Non-equivalent	Qualification merges UEG40221 Certificate IV in Gas Supply Industry Operations and UEG40120 Certificate IV in Gas Control Operations. Weighting points removed, number of elective groups reduced, Units of Competency in the core altered and number of Units of Competency removed from elective groups and superseded Units of Competency updated.

UEG50122 Diploma of Gas Supply Industry Operations		Updated	Non-equivalent	Weighting points removed, number of elective groups reduced, Units of Competency in the core altered and number of Units of Competency removed from Elective groups and superseded Units of Competency updated.
Units of competency				
UEGNSG002 Apply environmental policies and procedures in the gas supply industry		Updated	Equivalent	Occupational outcome has not changed
UEGNSG007 Assess the operational capability of gas safety equipment on a delivery vehicle		Updated	Non-equivalent	Application of the Unit of Competency has been expanded to apply to all industrial gases
UEGNSG008 Assist with the construction and laying of gas distribution mains		Updated	Equivalent	Occupational outcome has not changed
UEGNSG009 Assist with the construction, laying and connection of gas distribution services to mains		Updated	Equivalent	Occupational outcome has not changed
UEGNSG010 Conduct general excavations		Updated	Equivalent	Occupational outcome has not changed
UEGNSG011 Conduct isolations under the permit to work system for gas industry worksites		Updated	Equivalent	Occupational outcome has not changed
UEGNSG012 Construct and lay plastic gas distribution mains		Updated	Equivalent	Occupational outcome has not changed

UEGNSG013 Construct, lay and connect gas distribution to a main		Updated	Equivalent	Occupational outcome has not changed
UEGNSG015 Coordinate gas transmission pipeline repairs and modifications		Updated	Equivalent	Occupational outcome has not changed
UEGNSG016 Establish right of way access and maintain transmission pipeline easements		Updated	Equivalent	Occupational outcome has not changed
UEGNSG017 Fill by weight industrial gas cylinders		Updated	Equivalent	Occupational outcome has not changed
UEGNSG018 First on site response to gas pipeline emergencies		Updated	Equivalent	Occupational outcome has not changed
UEGNSG019 Inspect, test and maintain gas cylinders		Updated	Equivalent	Occupational outcome has not changed
UEGNSG020 Load, unload, exchange and connect industrial gas cylinders		Updated	Equivalent	Occupational outcome has not changed
UEGNSG021 Maintain multi-stage, multi-run pressure control devices		Updated	Equivalent	Occupational outcome has not changed
UEGNSG022 Maintain single stage, single run pressure control devices		Updated	Equivalent	Occupational outcome has not changed
UEGNSG023 Manage a utilities industry health, safety and environmental (HSE) management system		Updated	Non-equivalent	Superseding unit replaces two units

UEGNSG024 Monitor and control the transfer of bulk industrial gas		Updated	Equivalent	Occupational outcome has not changed
UEGNSG025 Monitor and operate complex flow control, measuring and regulating devices for gas distribution		Updated	Equivalent	Occupational outcome has not changed
UEGNSG026 Perform routine maintenance on distribution pipelines and facilities		Updated	Equivalent	Occupational outcome has not changed
UEGNSG027 Perform routine maintenance on transmission pipeline facilities and equipment		Updated	Equivalent	Occupational outcome has not changed
UEGNSG028 Perform scheduled maintenance on gas processing or storage facilities and equipment		Updated	Non-equivalent	Application of the Unit of Competency has been expanded to apply to all industrial gases
UEGNSG029 Process, mix and blend industrial gases		Updated	Non-equivalent	Application of the Unit of Competency has been expanded to apply to all industrial gases
UEGNSG030 Store and handle bulk industrial gases		Updated	Non-equivalent	Application of the Unit of Competency has been expanded to apply to all industrial gases
UEGNSG031 Prepare to work in the gas industry		Updated	Equivalent	Occupational outcome has not changed
UEGNSG032 Carry out aerial surveillance of gas transmission pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG033 Carry out basic work activities in a gas industry work environment		Updated	Equivalent	Occupational outcome has not changed

UEGNSG034 Carry out surveillance of gas transmission pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG035 Respond to gas infrastructure emergencies		Updated	Equivalent	Occupational outcome has not changed
UEGNSG036 Supervise and monitor contract work		Updated	Equivalent	Occupational outcome has not changed
UEGNSG037 Supervise technical operations for gas distribution or transmission		Updated	Equivalent	Occupational outcome has not changed
UEGNSG038 Supervise the operation of plant and equipment for the construction of gas transmission pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG039 Test new residential and small commercial gas installations		Updated	Equivalent	Occupational outcome has not changed
UEGNSG040 Use a portable gas detector to locate a combustible gas escape		Updated	Equivalent	Occupational outcome has not changed
UEGNSG041 Apply safe working practices in the gas supply industry		Updated	Equivalent	Occupational outcome has not changed
UEGNSG042 Pressure test residential and small commercial gas installations		Updated	Equivalent	Occupational outcome has not changed
UEGNSG043 Relight Type A gas appliances		Updated	Equivalent	Occupational outcome has not changed

UEGNSG044 Repair and maintain stationary gas fuelled turbine engines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG045 Carry out surveillance on gas distribution assets		Updated	Equivalent	Occupational outcome has not changed
UEGNSG046 Coat metallic pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG047 Compile a gas industry technical report		Updated	Equivalent	Occupational outcome has not changed
UEGNSG048 Conduct butt fusion of large diameter polyethylene gas pipeline systems		Updated	Equivalent	Occupational outcome has not changed
UEGNSG049 Control excavations in the vicinity of gas transmission pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG050 Control field pipeline operations		Updated	Equivalent	Occupational outcome has not changed
UEGNSG051 Coordinate repair of pipeline, facilities and equipment		Updated	Equivalent	Occupational outcome has not changed
UEGNSG052 Establish a utilities infrastructure worksite		Updated	Equivalent	Occupational outcome has not changed
UEGNSG053 Install and commission stationary gas fuelled turbine engines		Updated	Equivalent	Occupational outcome has not changed

UEGNSG054 Install cathodic protection systems		Updated	Equivalent	Occupational outcome has not changed
UEGNSG055 Launch and recover PIGs in a gas distribution pipeline		Updated	Equivalent	Occupational outcome has not changed
UEGNSG056 Launch and recover PIGs in gas transmission pipelines		Updated	Equivalent	Occupational outcome has not changed
UEGNSG057 Liaise with third party and the community to maintain pipeline integrity and community safety		Updated	Equivalent	Occupational outcome has not changed
UEGNSG058 Locate, prove and protect utility assets		Updated	Equivalent	Occupational outcome has not changed
UEGNSG059 Maintain cathodic protection systems		Updated	Equivalent	Occupational outcome has not changed
UEGNSG060 Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment		Updated	Equivalent	Occupational outcome has not changed
UEGNSG061 Monitor and control gas odourisation		Updated	Equivalent	Occupational outcome has not changed
UEGNSG062 Monitor and report on cathodic protection systems		Updated	Equivalent	Occupational outcome has not changed
UEGNSG063 Operate and maintain gas station water bath heaters		Updated	Equivalent	Occupational outcome has not changed

UEGNSG064 Operate and monitor pipeline control systems		Updated	Equivalent	Occupational outcome has not changed
UEGNSG065 Install gas flow, measuring and pressure regulating devices		Updated	Equivalent	Occupational outcome has not changed
UEGNSG014 Control industrial gas storage/processing operations		New	This is a new unit. No equivalent unit	
UEGNSG210 Supervise and monitor contract staff for work on distribution pipelines		Deleted		
UEGNSG350 First response to a gas facility event		Deleted		
UEGNSG352 Check and report on gas station conditions		Deleted		
UEGNSG620 Organise the repair of faults in LPG processing or storage facilities and equipment		Deleted		
UEGNSG713 Investigate billing exceptions conditions		Deleted		

Attachment B: How qualification updates support job roles

Please use the table below to demonstrate how the proposed updates to qualifications will better support job roles

Job role	Qualification	Proposed updates and how these better support the job role
Gas Pipeline Worker	Certificate II in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Utilities Industry Worker (Transmission Laying)	Certificate II in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Industry Operator (Support Services)	Certificate III in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Industry Operator (Distribution/Transmission)	Certificate III in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Meter Reader	Certificate II in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new

		entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Pipeline Supervisor	Certificate IV in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Industry Operations Supervisor (Transmission/Distribution)	Certificate IV in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Industry Operations Supervisor (Storage/Processing)	Certificate IV in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. In particular, the expansion of LPG units to broader industrial gas Units of Competency will better reflect industry needs and practices and make skills of workers within the storage and processing sector more transferrable. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
Gas Controller	Certificate IV in Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it. In particular, the incorporation of Gas Controllers into the Certificate IV in Gas Supply Industry Operations provides them with a more equitable qualification to other workers within the gas supply industry greatly expanding the opportunity for Gas Controllers to transition to other parts of the industry.

Gas Technical Officer	Diploma of Gas Supply Industry Operations	The updates to existing Units of Competency will support the job role by incorporating the new technologies and skills associated with them. The improved packaging of the qualifications will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it.
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Attachment C: Stakeholder consultation

List of stakeholders that actively participated in stakeholder consultation for the project:

Name	Organisation	Title	Industry	Representation Type	State
Michael Broomhead	ATCO	Supervisor Training	Gas	Employer	WA
Robert Puckridge	Magnify You	Principle Advisor	Gas	Training / Consulting	SA
Charlie Grigio	ATCO	Trainer and RTO Compliance	Gas	Employer	WA
Dean Solmundson	ATCO	Senior Manager Technical Services	Gas	Employer	WA
Paul Dalton	PKD Training	Director	Gas	RTO	QLD
Marshall Holmes	Resource Safety and Health Queensland	Executive Petroleum Engineer	Gas	Government	Qld
Leigh Atkins	APA Group	Team Leader Asset Planning / Process Engineer	Gas	Employer	Vic
John Granat	Enertrain	Technical Training Manager	Gas	RTO	Vic
Ashley Hartnell	Zinfara	Transmission Technical Team Leader	Gas	Employer	NSW
Brian Little	Energy Safe Victoria	Pipeline Inspector	Gas	Government	Vic
Lindsay Eisemann	Origin Energy	LPG Training and Competency SNR BP	Gas	Employer	Qld
Shane Roulstone	AWU	National Organiser & Campaigns Director	Gas	Union	NSW

Jakes Jacobs	Energy Skills Queensland	Program Manager – Workforce Skilling	Gas	RTO	Qld
Jason Von Koll	Enertrain	Managing Director	Gas	RTO	Vic
Paul Ingram	Enertrain	Trainer	Gas	RTO	Vic
Tobias Terry	Department of Justice Tasmania	Gas Safety Specialist - Consumer, Building and Occupational Services	Gas	Government	Tas
Kerrin Pryor	Swinburne University / Victorian Hydrogen Hub	Project Manager, Learning Design and Innovation	Research	Education	Vic

Summary of Feedback by Stakeholder type:

Stakeholder Type	Key Feedback Points	Actions Taken to Address Feedback
Industry Reference Committee (IRC) Representatives	<ul style="list-style-type: none"> Nil 	
Peak Industry Bodies	<ul style="list-style-type: none"> Nil 	
Employers (Non-IRC)	<ul style="list-style-type: none"> Nil 	
Regulators	<ul style="list-style-type: none"> Nil 	
Registered Training Organisations (RTOs)	<ul style="list-style-type: none"> Nil 	
Training Boards/Other	<ul style="list-style-type: none"> Nil 	
State and Territory Training Authorities (STAs)	<ul style="list-style-type: none"> WA STA - The drafts were circulated through our networks for review and we have received positive feedback. 	

Unions	<ul style="list-style-type: none"> • Nil 	
Please add other categories as appropriate	<ul style="list-style-type: none"> • 	

Summary of Issues raised during stakeholder consultation

Issue raised	Key Feedback Points	Actions Taken to Address Feedback
Relevance of knowledge evidence and performance evidence in UEGNSG219Y Conduct general excavations	<ul style="list-style-type: none"> • It was questioned why the Performance Evidence “handheld concrete and ceramic cutters” and Knowledge Evidence “client issues include gas utilities asset types, characteristics relevant to network operator” were relevant to the unit. 	TAC examined this feedback and agreed that neither element raised were relevant and were removed - stakeholder was advised of this decision.
Additional pre-requisite unit for UEGNSG201Y Conduct distribution pipeline emergency repair	<ul style="list-style-type: none"> • Was MSMWHS216 - Operate breathing apparatus as a pre-requisite 	TAC determined that as the unit is not relevant to the whole industry it cannot be a pre-requisite - stakeholder was advised of this decision
Improve qualification description for UEG20122Y Certificate II in Gas Supply Industry Operations	<ul style="list-style-type: none"> • Given there are no actual construction units the Certificate II, is it accurate to include activities such as laying distribution infrastructure (including pipes) and developing gas pipeline infrastructure. 	The TAC discussed and decided to add "assist" in the qualification description to better clarify the role. - stakeholder was advised of this decision.
Addition of and elective for UEG20122Y Certificate II in Gas Supply Industry Operations	<ul style="list-style-type: none"> • It was requested to include MSMWHS216 Operate breathing apparatus as an imported elective. 	Addition of MSMWHS216 to the elective units was discussed by the TAC and given that under the packaging rules, this unit can be added if required, it was determined that this change was not required - stakeholder was advised of this decision.

Attachment D: Mandatory Workplace Requirements in Training Products

Please set out in the table below training products which include a mandatory workplace requirement (i.e. which must be completed in a workplace)

Code/title	Description of the Requirement (e.g. work placement, assessment requirement)	Rationale for Inclusion	Evidence of employer support

Attachment E: No enrolment and low enrolment training products

No Enrolment:

Please set out in the table below those training products that have had no enrolments over the past three years for which data is available

Units of Competency		
Name of Unit/Unit Code	Proposed for retention/deletion	Rationale for Retention
Qualifications		
Name of Qualification/ Qualification Code	Proposed for retention/deletion	Rationale for Retention

Low Enrolment:

Please set out in the table below those training products that have had low enrolments over the past three years for which data is available¹

Units of Competency		
Name of Unit/Unit Code	Proposed for retention/deletion	Rationale for Retention
Qualifications		
Name of Qualification/ Qualification Code	Proposed for retention/deletion	Rationale for Retention

¹ Low enrolment training products are qualifications or units of competency that have had less than 42 enrolments in each of the past three years (*this is the maximum no. of enrolments for the bottom 25% of qualifications based on average enrolments over 2016 - 2018*)

Attachment F: Quality assurance reports

- Independent Quality Report
- Editorial and Equity Report

Quality Report Template

Section 1 – Cover page

Information required	Detail
Training Package title and code	UEG Gas Industry Training Package (Release 4.0)
Number of new qualifications and their titles ¹	N/A
Number of revised qualifications and their titles	<p>Four (4) revised qualifications:</p> <p>UEG20122 Certificate II in Gas Supply Industry Operations UEG30122 Certificate III in Gas Supply Industry Operations UEG40222 Certificate IV in Gas Supply Industry Operations UEG50122 Diploma of Gas Supply Industry Operations</p>
Number of new units of competency and their titles	<p>One (1) new unit of competency:</p> <p>UEGNSG014 Control industrial gas storage/processing operations</p>
Number of revised units of competency and their titles	<p>Fifty-nine (59) revised units of competency:</p> <ul style="list-style-type: none"> • Refer to Attachment A
Confirmation that the panel member is independent of: <ul style="list-style-type: none"> • the Training Package or Training Package components review ('Yes' or 'No') • development and/or validation activities associated with the Case for Endorsement ('Yes' or 'No') • undertaking the Equity and/or Editorial Reports for the training package products that are the subject of this quality report ('Yes' or 'No') 	I confirm through affirmation: Yes Yes Yes

¹ When the number of training products is high the titles can be presented as an attached list.

Information required	Detail
Confirmation of the Training Packages or components thereof being compliant with the Standards for Training Packages 2012	These Training Package components are compliant with the Standards for Training Packages 2012.
Confirmation of the Training Packages or components thereof being compliant with the Training Package Products Policy	This Training Package and its component parts are compliant with the Training Package Products Policy.
Confirmation of the Training Packages or components thereof being compliant with the Training Package Development and Endorsement Process Policy	These Training Package components are compliant with the Training Package Development and Endorsement Process Policy.
<p>Panel member's view about whether:</p> <ul style="list-style-type: none"> • the evidence of consultation and validation process being fit for purpose and commensurate with the scope • estimated impact of the proposed changes is sufficient and convincing 	<p>As evidenced by the Case for Endorsement (CfE), and the associated appendices, consultation was sufficient and specific to the project. The Technical Advisory Committee was nationally representative of a broad cross-section of stakeholders.</p> <p>The CfE convincingly outlines the reasons for the revision of the unit and associated qualifications revision in the UEG Training Package. The impact of these additions is also clear.</p> <p>There are no exception reports to the consultation findings and the level of industry support is evident by the volume of participation and the status of those involved in the consultation process.</p>
Name of panel member completing Quality Report	Terry Smith
Date of completion of the Quality Report	8 th August 2022

Section 2 – Compliance with the Standards for Training Packages 2012

Standards for Training Packages	Standard met 'yes' or 'no'	Evidence supporting the statement of compliance or noncompliance (including evidence from equity and editorial reports)
<p>Standard 1</p> <p>Training Packages consist of the following:</p> <ol style="list-style-type: none"> 1. AISC endorsed components: <ul style="list-style-type: none"> • qualifications • units of competency • assessment requirements (associated with each unit of competency) • credit arrangements 2. One or more quality assured companion volumes (CVIG) 	<p>Yes</p>	<p>I confirm that:</p> <ul style="list-style-type: none"> • qualifications • units of competency • assessment requirements (associated with each unit of competency) and • the UEG Training Package CVIG <p>are all evident, compliant, and suitable.</p>
<p>Standard 2</p> <p>Training Package developers comply with the Training Package Products Policy</p>	<p>Yes</p>	<p>The Training Package developers have complied with the Training Package Products Policy. All conditions have been met.</p>
<p>Standard 3</p> <p>Training Package developers comply with the AISC Training Package Development and Endorsement Process Policy</p>	<p>Yes</p>	<p>The Training Package developers have complied with the AISC Training Package Development and Endorsement Process Policy in all aspects: consultation; development; and compliance.</p>
<p>Standard 4</p> <p>Units of competency specify the standards of performance required in the workplace</p>	<p>Yes</p>	<p>The standards of performance required in the workplace are specified in the units of competency. They are clearly written in plain English.</p> <p>The standard of performance and associated benchmarks are evident.</p> <p>The elements and associated performance criteria are clear and logically sequenced.</p> <p>The units are well structured and easy to understand and apply.</p>

Standards for Training Packages	Standard met 'yes' or 'no'	Evidence supporting the statement of compliance or noncompliance (including evidence from equity and editorial reports)
<p>Standard 5</p> <p>The structure of units of competency complies with the unit of competency template</p>	<p>Yes</p>	<p>The structure meets the specified template requirements.</p> <p>I note the equity and editorial reports and concur with their findings.</p> <p>In reviewing I can confirm that the Foundation Skills are explicit and embedded in the performance criteria throughout all units. This was proven through analysis against the ASQA resource Trigger Words for Foundation Skills.</p> <p>The unit titles are correct and unit applications are clear, including provision of context.</p>
<p>Standard 6</p> <p>Assessment requirements specify the evidence and required conditions for assessment</p>	<p>Yes</p>	<p>Assessment requirements are clear as are the conditions for assessment.</p> <p>Performance evidence is specifically related to performance and is a clear and concise summary of unit performance requirements.</p> <p>Knowledge evidence is clearly related and specifically linked to the performance criteria of the units. All components are clear, readily understandable, and logical.</p>
<p>Standard 7</p> <p>Every unit of competency has associated assessment requirements. The structure of assessment requirements complies with the assessment requirements template</p>	<p>Yes</p>	<p>All units have associated assessment requirements.</p> <p>The assessment requirements comply with the relevant and specified template.</p>

Standards for Training Packages	Standard met 'yes' or 'no'	Evidence supporting the statement of compliance or noncompliance (including evidence from equity and editorial reports)
Standard 8 Qualifications comply with the Australian Qualifications Framework specification for that qualification type	N/A	The revised qualifications maintain their compliance with all Australian Qualifications Framework specifications for the qualification type.
Standard 9 The structure of the information for the Australian Qualifications Framework qualification complies with the qualification template	N/A	The structure of the information is complaint.
Standard 10 Credit arrangements existing between Training Package qualifications and Higher Education qualifications are listed in a format that complies with the credit arrangements template	N/A	There is no change to existing credit arrangement status.
Standard 11 A quality assured companion volume implementation guide produced by the Training Package developer is available at the time of endorsement and complies with the companion volume implementation guide template.	Yes	A Companion Volume Implementation Guide (CVIG) exists and provides clear and useful information. It also includes clear guidance on the context of the range of job role environment applications in appendix form and has useful advice for implementers and educators.
Standard 12 Training Package developers produce other quality assured companion volumes to meet the needs of their stakeholders as required.	Yes	The UEG CVIG is complemented by appendices providing supplementary information. This also makes the information easier to access.

Section 3 – Compliance with the training package quality principles

Note: not all training package quality principles might be applicable to every training package or its components. Please provide a supporting statement/evidence of compliance or non-compliance against each principle.

Quality principle 1. Reflect identified workforce outcomes

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance/non-compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Driven by industry's needs	Yes	<p>The products developed were driven by the need for units and qualifications to meet critical safety, regulatory and current workplace requirements and specifically as stated in the CfE:</p> <p>The 59 Units of Competency had not been reviewed since 2012 and the five qualifications contained weighting points and packaging rules that created barriers of entry into the industry and difficulties for Registered Training Organisations (RTO's). The scope of this project was to update both the Units of Competency and qualifications to ensure that they met the contemporary needs of the gas supply industry. Part of this was ensuring that the required skills and knowledge of hydrogen was included in relevant Units of Competency. It also involved the rationalisation of duplicative Units of Competency where appropriate.</p> <p>The updates to the UEG Gas Industry Training Package will make it easier for new entrants to come into the industry and for existing workers to develop their skills to progress through it. The repackaged qualifications will make them more efficient for RTOs to deliver and more attractive for people to enrol in. The expansion of liquefied petroleum gas (LPG) Units of Competency to broader industrial gas Units of Competency will better reflect industry needs and practices which should also promote greater enrolment in these Units of Competency. The introduction within relevant Units of Competency of the requirement of knowledge evidence for a complete range of industrial or combustible gases will not only ensure that gas supply industry workers are properly skilled across the expanding range of gases that are being introduced, such as hydrogen and blende varieties of gas, but is done so in a way that it builds on their exiting skills and without the need for gas type specific Units of Competency that would dilute the skills base across the gas supply industry and create an unnecessary learning load on workers.</p> <p>The training package revision also arose out of an identified need by industry to address current good practice and to streamline and to disable barriers to entry.</p> <p>All revised units and associated qualifications appear to meet industry requirements and comprehensively cover specific competency requirements.</p>

		<p>The consultation and development associated with the revision inclusion and development of these units and associated revised qualifications ensures that they have been driven by industry's needs and expectations.</p>
<p>Compliant and responds to government policy initiatives</p> <p>Training package component responds to the COAG Industry and Skills Council's (CISC) training package-related initiatives or directions, in particular the 2015 training package reforms. Please specify which of the following CISC reforms are relevant to the training product and identify supporting evidence:</p> <ul style="list-style-type: none"> • ensure obsolete and superfluous qualifications are removed from the system • ensure that more information about industry's expectations of training delivery is available to training providers to improve their delivery and to consumers to enable more informed course choices • ensure that the training system better supports individuals to move easily from one related occupation to another • improve the efficiency of the training system by creating units that can be owned and used by multiple industry sectors • foster greater recognition of skill sets 	<p>Yes</p>	<p>The project meets 2015 reforms and directions.</p> <p>Efficiency was achieved through reviewing qualifications and associated units.</p> <p>The CVIG contains detailed information about industry's expectations of training delivery. The CVIG is readily available, in a useable style, to training providers to inform their delivery and to consumers to enable more informed course choices.</p>

Reflect contemporary work organisation and job profiles incorporating a future orientation	Yes	The units are future oriented and take account of current processes and techniques. Nothing in the language excludes future application. The CVIG also provides critical information on job/role environment contexts.
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Quality principle 2: Support portability of skills and competencies including reflecting licensing and regulatory requirements

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Support movement of skills within and across organisations and sectors	N/A	There is no change to the existing level of portability within the new and revised units and associated qualifications. The revised qualifications and the associated improved existing units are specific to a highly specialised sectors. Where cross-industry units are applicable they have been utilised.
Promote national and international portability	N/A	These units are specific to technical operations in the gas industry but are nationally and potentially internationally portable.
Reflect regulatory requirements and licensing	Yes	Where licensing and regulatory requirements are evident, these are mentioned and given context.

Quality principle 3: Reflect national agreement about the core transferable skills and core job-specific skills required for job roles as identified by industry

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Reflect national consensus	Yes	The CfE clearly demonstrates the wide national consultation that occurred and the associated national consensus.

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Recognise convergence and connectivity of skills	N/A	There is no change to the existing level of convergence and connectivity of skills within the revised units and associated qualifications. The revised qualifications the new unit and the improved existing units are specific to a specialised industry and sector.

Quality principle 4: Be flexible to meet the diversity of individual and employer needs including the capacity to adapt to changing job roles and workplaces

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Meet the diversity of individual and employer needs	Yes	The CfE highlights how all relevant sectors and industry representatives were widely consulted and their needs and views incorporated into the development of these units. The rationalisation of units and the complexity of the consultation and commitment to the process highlight the inclusion of diverse individual and employer needs.
Support equitable access and progression of learners	Yes	<p>These units are technical in nature and specific to their specific sectors within gas work.</p> <p>The units are written in plain English and contain simple phrasing. Assessment and context are clear. There is no unnecessary exclusion evident.</p> <p>The pathways outlined in the CVIG also highlight the progression and pathways available in UEG qualifications. While these qualifications relate to specialised and technical areas they do contain a Certificate II pathway.</p>

Quality principle 5: Facilitate recognition of an individual's skills and knowledge and support movement between the school, vocational education, and higher education sectors

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Support learner transition between education sectors	N/A	<p>The units and the associated new and revised qualifications are technical and specific in nature to specialised UEG roles but do incorporate a Certificate II qualification..</p> <p>There are no higher education arrangements.</p>

Quality principle 6: Support interpretation by training providers and others through the use of simple, concise language and clear articulation of assessment requirements

Key features	Quality principle is met: Yes / No or N/A	Evidence demonstrating compliance with the quality principle Please see examples of evidence in the Training Package Development and Endorsement Process Policy
Support implementation across a range of settings	N/A	These units have been written to address specific technical skills requirements.
Support sound assessment practice	Yes	The depth and breadth of assessment is consistent and clear. Assessment conditions are clearly outlined. The units of competency and associated assessment requirements clearly specify the outcomes required in plain English and provide specific volume and context.
Support implementation	Yes	The product is compliant with TGA/National Register requirements for publication. CVIG provides clear advice about unit applications and contexts.

Attachment A: Revised units of competency

UEGNSG002	Apply environmental policies and procedures in the gas supply industry
UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle
UEGNSG008	Assist with the construction and laying of gas distribution mains
UEGNSG009	Assist with the construction, laying and connection of gas distribution services to mains
UEGNSG010	Conduct general excavations
UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites
UEGNSG012	Construct and lay plastic gas distribution mains
UEGNSG013	Construct, lay and connect a gas distribution service to a main
UEGNSG015	Coordinate gas transmission pipeline repairs and modifications
UEGNSG016	Establish right of way access and maintain transmission pipeline easement
UEGNSG017	Fill by weight industrial gas cylinders
UEGNSG018	First on site response to gas pipeline emergencies
UEGNSG019	Inspect, test and maintain gas cylinders
UEGNSG020	Load, unload, exchange and connect industrial gas cylinders

UEGNSG021	Maintain multi-stage, multi-run pressure control devices
UEGNSG022	Maintain single stage, single run pressure control devices
UEGNSG023	Manage a utilities industry health, safety and environmental (HSE) management system
UEGNSG024	Monitor and control the transfer of bulk industrial gas
UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices
UEGNSG026	Perform routine maintenance on distribution pipelines and facilities
UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment
UEGNSG028	Perform scheduled maintenance on gas processing or storage facilities and equipment
UEGNSG029	Process, mix and blend industrial gases
UEGNSG030	Store and handle bulk industrial gases
UEGNSG031	Prepare to work in the gas industry
UEGNSG032	Carry out aerial surveillance of gas transmission pipelines
UEGNSG033	Carry out basic work activities in a gas industry work environment
UEGNSG034	Carry out surveillance of gas transmission pipelines
UEGNSG035	Respond to gas infrastructure emergencies
UEGNSG036	Supervise and monitor contract work
UEGNSG037	Supervise technical operations for gas distribution or transmission
UEGNSG038	Supervise the operation of plant and equipment for the construction of gas transmission pipelines
UEGNSG039	Test new residential and small commercial gas installations
UEGNSG040	Use a portable detector to locate a combustible gas escape
UEGNSG041	Apply safe working practices in the gas supply industry
UEGNSG042	Pressure test residential and small commercial gas installations
UEGNSG043	Relight Type A gas appliances
UEGNSG044	Repair and maintain stationary gas fuelled turbine engines
UEGNSG045	Carry out surveillance on gas distribution assets
UEGNSG046	Coat metallic pipelines
UEGNSG047	Compile a gas industry technical report
UEGNSG048	Conduct butt fusion of large diameter polyethylene gas pipeline systems
UEGNSG049	Control excavations in the vicinity of gas transmission pipelines
UEGNSG050	Control field pipeline operations
UEGNSG051	Coordinate repair of pipeline, facilities and equipment
UEGNSG052	Establish a utilities infrastructure worksite
UEGNSG053	Install and commission stationary gas fuelled turbine engines
UEGNSG054	Install cathodic protection systems
UEGNSG055	Launch and recover PIGs in a gas distribution pipeline
UEGNSG056	Launch and recover PIGs in gas transmission pipelines
UEGNSG057	Liaise with third party and the community to maintain pipeline integrity and community safety

UEGNSG058	Locate, prove and protect utility assets
UEGNSG059	Maintain cathodic protection systems
UEGNSG060	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment
UEGNSG061	Monitor and control gas odourisation
UEGNSG062	Monitor and report on cathodic protection systems
UEGNSG063	Operate and maintain gas station water bath heaters
UEGNSG064	Operate and monitor pipeline control systems
UEGNSG065	Install gas flow, measuring and pressure regulating devices

Editorial Report Template

1. Cover page									
Information required	Detail								
Training Package title and code	UEG Gas Industry Training Package (Release 4.0)								
Number of new qualifications and their titles ¹	N/A								
Number of revised qualifications and their titles	<p>Four (4) revised qualifications:</p> <table border="1"> <tr> <td>UEG20122</td> <td>Certificate II in Gas Supply Industry Operations</td> </tr> <tr> <td>UEG30122</td> <td>Certificate III in Gas Supply Industry Operations</td> </tr> <tr> <td>UEG40222</td> <td>Certificate IV in Gas Supply Industry Operations</td> </tr> <tr> <td>UEG50122</td> <td>Diploma of Gas Supply Industry Operations</td> </tr> </table>	UEG20122	Certificate II in Gas Supply Industry Operations	UEG30122	Certificate III in Gas Supply Industry Operations	UEG40222	Certificate IV in Gas Supply Industry Operations	UEG50122	Diploma of Gas Supply Industry Operations
UEG20122	Certificate II in Gas Supply Industry Operations								
UEG30122	Certificate III in Gas Supply Industry Operations								
UEG40222	Certificate IV in Gas Supply Industry Operations								
UEG50122	Diploma of Gas Supply Industry Operations								

¹ When the number of training products is high the titles can be presented as an attachment.

Number of new units of competency and their titles	One (1) new unit of competency: <table border="1" data-bbox="954 156 1688 225"> <tr> <td data-bbox="954 156 1126 225">UEGNSG014</td> <td data-bbox="1137 156 1688 225">Control industrial gas storage/processing operations</td> </tr> </table>	UEGNSG014	Control industrial gas storage/processing operations
UEGNSG014	Control industrial gas storage/processing operations		
Number of revised units of competency and their titles	Fifty-nine (59) revised units of competency: Refer to Attachment A		
Confirmation that the draft training package components are publication-ready	Draft Training Package components will be publication ready, once uploaded onto training.gov.au.		
Is the Editorial Report prepared by a member of the Quality Assurance Panel? If 'yes' please provide a name.	Yes. Trish Gamper (Gamper Consulting Services)		
Date of completion of the report	2 August 2022		

2. Content and structure

Units of competency

Editorial requirements	Comments
Standard 5: <ul style="list-style-type: none">The structure of units of competency complies with the unit of competency template.	The structure of units of competency complies with the unit of competency template and contain all necessary requirements.
Standard 7: <ul style="list-style-type: none">The structure of assessment requirements complies with the assessment requirements template.	The structure of assessment requirements complies with the assessment requirements template. Performance and knowledge evidence contain adequate frequency and/or volume of evidence required. The assessment conditions outline required conditions for assessment and details relevant equipment and resources required.

Qualifications

Editorial requirements	Comments by the editor
Standard 9: <ul style="list-style-type: none">The structure of the information for qualifications complies with the qualification template.	The structure of the information for the qualifications complies with the qualification template.
Standard 10: <ul style="list-style-type: none">Credit arrangements existing between Training Package qualifications and Higher Education qualifications are listed in a format that complies with the credit arrangements template.	NA

Companion Volumes

Editorial requirements	Comments by the editor
Standard 11: <ul style="list-style-type: none">A quality assured companion volume implementation guide is available and complies with the companion volume implementation guide template.	A Companion Volume Implementation Guide (CVIG) is available which complies with the CVIG template. The CVIG has been quality assured in accordance with AIS internal processes.

3. Proofreading

Editorial requirements	Comments by the editor
<ul style="list-style-type: none">Unit codes and titles and qualification codes and titles are accurately cross-referenced throughout the training package product(s) including mapping information and packaging rules, and in the companion volume implementation guide.	Codes and titles of units of competency and qualifications were cross-referenced throughout the editorial process and checked against the mapping information, qualification packaging rules, CVIG and the Case for Endorsement. Minor corrections were identified and confirmed as correct with AIS.

Editorial requirements	Comments by the editor
<ul style="list-style-type: none"> • Units of competency and their content are presented in full. 	<p>All units of competency were provided in full.</p>
<ul style="list-style-type: none"> • The author of the Editorial Report is satisfied with the quality of the training products, specifically with regard to: <ul style="list-style-type: none"> ○ absence of spelling, grammatical and typing mistakes ○ consistency of language and formatting ○ logical structure and presentation of the document ○ compliance with the required templates 	<p>Training Package components were reviewed for:</p> <ul style="list-style-type: none"> • spelling, grammatical and typing errors • consistency of language and formatting • structure and presentation of units • compliance with required templates. <p>All suggested edits, corrections and queries were marked up using track changes and forwarded to AIS for comment/review before a final edit of the Training Package components.</p> <p>I am satisfied with the quality of the Training Package components with regard to the above points.</p>

Attachment A: Revised units of competency

UEGNSG002	Apply environmental policies and procedures in the gas supply industry
UEGNSG007	Assess the operational capability of gas safety equipment on a delivery vehicle
UEGNSG008	Assist with the construction and laying of gas distribution mains
UEGNSG009	Assist with the construction, laying and connection of gas distribution services to mains
UEGNSG010	Conduct general excavations
UEGNSG011	Conduct isolations under the permit to work system for gas industry worksites
UEGNSG012	Construct and lay plastic gas distribution mains
UEGNSG013	Construct, lay and connect a gas distribution service to a main
UEGNSG015	Coordinate gas transmission pipeline repairs and modifications
UEGNSG016	Establish right of way access and maintain transmission pipeline easement
UEGNSG017	Fill by weight industrial gas cylinders
UEGNSG018	First on site response to gas pipeline emergencies
UEGNSG019	Inspect, test and maintain gas cylinders
UEGNSG020	Load, unload, exchange and connect industrial gas cylinders
UEGNSG021	Maintain multi-stage, multi-run pressure control devices
UEGNSG022	Maintain single stage, single run pressure control devices
UEGNSG023	Manage a utilities industry health, safety and environmental (HSE) management system
UEGNSG024	Monitor and control the transfer of bulk industrial gas
UEGNSG025	Monitor and operate complex flow control, measuring and regulating devices
UEGNSG026	Perform routine maintenance on distribution pipelines and facilities
UEGNSG027	Perform routine maintenance on transmission pipeline facilities and equipment
UEGNSG028	Perform scheduled maintenance on gas processing or storage facilities and equipment
UEGNSG029	Process, mix and blend industrial gases
UEGNSG030	Store and handle bulk industrial gases
UEGNSG031	Prepare to work in the gas industry
UEGNSG032	Carry out aerial surveillance of gas transmission pipelines
UEGNSG033	Carry out basic work activities in a gas industry work environment
UEGNSG034	Carry out surveillance of gas transmission pipelines
UEGNSG035	Respond to gas infrastructure emergencies
UEGNSG036	Supervise and monitor contract work
UEGNSG037	Supervise technical operations for gas distribution or transmission
UEGNSG038	Supervise the operation of plant and equipment for the construction of gas transmission pipelines
UEGNSG039	Test new residential and small commercial gas installations
UEGNSG040	Use a portable detector to locate a combustible gas escape
UEGNSG041	Apply safe working practices in the gas supply industry
UEGNSG042	Pressure test residential and small commercial gas installations

UEGNSG043	Relight Type A gas appliances
UEGNSG044	Repair and maintain stationary gas fuelled turbine engines
UEGNSG045	Carry out surveillance on gas distribution assets
UEGNSG046	Coat metallic pipelines
UEGNSG047	Compile a gas industry technical report
UEGNSG048	Conduct butt fusion of large diameter polyethylene gas pipeline systems
UEGNSG049	Control excavations in the vicinity of gas transmission pipelines
UEGNSG050	Control field pipeline operations
UEGNSG051	Coordinate repair of pipeline, facilities and equipment
UEGNSG052	Establish a utilities infrastructure worksite
UEGNSG053	Install and commission stationary gas fuelled turbine engines
UEGNSG054	Install cathodic protection systems
UEGNSG055	Launch and recover PIGs in a gas distribution pipeline
UEGNSG056	Launch and recover PIGs in gas transmission pipelines
UEGNSG057	Liaise with third party and the community to maintain pipeline integrity and community safety
UEGNSG058	Locate, prove and protect utility assets
UEGNSG059	Maintain cathodic protection systems
UEGNSG060	Maintain SCADA controlled flow and pressure equipment and electronic gas measurement equipment
UEGNSG061	Monitor and control gas odourisation
UEGNSG062	Monitor and report on cathodic protection systems
UEGNSG063	Operate and maintain gas station water bath heaters
UEGNSG064	Operate and monitor pipeline control systems
UEGNSG065	Install gas flow, measuring and pressure regulating devices

Letters Of Support

Hi Shaun,

I would like to confirm that I represented Jemena/Zinfra in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee

Regards

Ashley Hartnell
Transmission Technical Team Leader

M: 0432 62 1960

ashley.hartnell@zinfra.com.au



"We acknowledge the Traditional Owners of the land on which we operate and recognise their continuing connection to land, waters and culture. We pay our respects to their Elders past, present and emerging."

5th July 2022

Mr Paul Walsh
Chief Executive Officer
Australian Industry Standards
Level 2, 31 Market Street South
Melbourne VIC 3205

I would like to confirm that I represented Energy Safe Victoria in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee

Yours sincerely



Brian Little
Senior Pipeline inspector

81 Prinsep Road
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Bibra Lake DC WA 6965
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5 July 2022

Mr Paul Walsh
Chief Executive Officer
Australian Industry Standards
Level 2, 31 Market Street South
Melbourne VIC 3205

Private & Confidential

To Whom it may concern

Re: Endorsement of UEG Gas Industry Training Package

I would like to confirm that I represented ATCO in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee

Yours faithfully



Michael Broomhead
Manager Training

05 August 2022

Paul Walsh
Chief Executive Officer
Australian Industry Standards
Level 2, 31 Market St
South Melbourne VIC 3205

Dear Paul

GAS SUPPLY INDUSTRY SKILLS - LETTER OF ENDORSEMENT

I would like to confirm that I represented Energy Skills Queensland in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee

Yours sincerely



Jakes Jacobs
Industry Workforce Planner
Energy Skills Queensland

12/7/22

Mr Paul Walsh

Chief Executive Officer

Australian Industry Standards

Level 2, 31 Market Street South

Melbourne VIC 3205

I would like to confirm that I represented APA in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee



Leigh Atkins

Team Leader Asset Planning, Networks

Operations

Hi Shaun

I would like to confirm that I represented Origin Energy in a series of workshops and teleconferences in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee

Best Regards



Lindsay Eisemann

Principal Advisor – HSE Training & Competency

Origin

Level 24, 180 Anne St, Brisbane QLD 4000

t 07 3512 4252 m 0455 098 797

e Lindsay.Eisemann@originenergy.com.au



Resources, Mines and Energy Queensland

275 George Street

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www.rshq.qld.gov.au

ABN 59 020 847 551

04 July 2022

Mr Paul Walsh
Chief Executive Officer
Australian Industry Standards
Level 2, 31 Market Street South
Melbourne VIC 3205

Dear Mr Paul Walsh

UEG Gas Supply Industry Skills Project

I would like to confirm that I represented the Resources Safety and Health Queensland in a series of workshops and teleconferences in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and seventy units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training packages will align gas industry skills with current practices, new technologies, regulations and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee.

Should you wish to discuss this matter further, please contact myself on 0477 377 109.

Yours sincerely,

Marshall Holmes

Executive Petroleum Engineer, Petroleum and Gas Inspectorate



ABN: 31 302 982 386

1st July 2022
Mr Paul Walsh
Chief Executive Officer
Australian Industry Standards
Level 2, 31 Market Street South
Melbourne VIC 3205

I would like to confirm that I represented SA H2H Hydrogen Technology Cluster, of which Magnify You is a member, in a series of workshops and teleconference in the development of the UEG Gas Supply Industry Skills project, to be included in the UEG Gas Industry Training Package.

Five qualifications and 70 units of competency have been reviewed and one new unit of competency has been developed for inclusion in the UEG Gas Industry Training Package. These training products will align gas industry skills with current industry practices, new technologies, regulations, and the growth of hydrogen as part of the gas industry.

I am pleased to support the submission of training products materials for this project to the Gas Industry Reference Committee,

Regards
Rob Puckridge
Senior Training Advisor
Magnify You
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Email: robertpuckridge@magnifyyou.com.au
Web: magnifyyou.com.au



