



AUSTRALIAN
INDUSTRY
STANDARDS

GAS IRC WORKPLAN

**SECTOR
OVERVIEW**

EMPLOYMENT

**SECTORAL
INSIGHTS**

**SKILLS
OUTLOOK**

**TRAINING
PRODUCT
REVIEW PLAN
2016-17 - 2019-20**

**IRC
SIGNOFF**



GAS IRC WORKPLAN

This Four-Year Workplan has been submitted by the Gas Industry Reference Committee (IRC) to Australian Industry and Skills Committee (AISC) for approval.

The Workplan identifies the priority skill needs of the Gas Supply, Transmission, Distribution and Gaseous Fuels industry following a research and stakeholder consultation process conducted by Australian Industry Standards on behalf of the IRC.

Once approved by the AISC the Workplan informs the development of a four-year rolling National Schedule for development and review work of the UEG11 Gas Industry Training Package. More information on the National Schedule can be found at: www.aisc.net.au/content/national-schedule

This Workplan was agreed to by the Gas IRC Interim Chair on Tuesday, 27 September 2016:



Joe Calabrese
GAS IRC INTERIM CHAIR

HOW TO USE THIS DOCUMENT



This document contains links to assist the reader to navigate efficiently through the content of the Workplan. The tiles on the cover page, and the divider pages will link to the relevant content when clicked with a mouse, or touched on a tablet device.

The tiles at the bottom of pages can be clicked to return to the beginning of each section, or the front page of the Workplan as required.



GAS INDUSTRY REFERENCE COMMITTEE

The Gas Industry Reference Committee has been assigned responsibility for the UEG11 Gas Industry Training Package.

The UEG11 Gas Industry Training Package provides the only Vocational Education and Training (VET) qualifications for occupations involved in the manufacture and distribution of town gas through a system of mains and pipelines.

More information about the Gas IRC and its work can be found here:

<http://www.australianindustrystandards.org.au/committee/gas-industry-reference-committee/>

GAS SECTOR OVERVIEW

**GAS INDUSTRY
OVERVIEW**

**TRAINING
PACKAGE
OVERVIEW**

**BUSINESS
ANALYSIS**

**KEY
STAKEHOLDERS**

**INDUSTRY
CHALLENGES AND
OPPORTUNITIES**

FRONT PAGE



GAS INDUSTRY OVERVIEW

The Gas Supply, Transmission, Distribution and Gaseous Fuels industry is divided into two sectors: Retailers that buy and sell gas, and Distributors that operate the networks that carry gas to the end user. The industry is forecast to generate \$10.8 billion for the Australian economy through FY 2016-17 and employs more than around 16,000 people with forecasted employment growth of 3 per cent over the next five years resulting in steady demand for a skilled workforce. Future workforce requirements include the need to upskill the existing workforce to keep up with the demands of changing technology entering the market. The Gas Supply, Transmission, Distribution and Gaseous Fuels industry will be referenced throughout the document as the Gas Supply and Distribution industry.

The industry has seen an increase in demand for domestic consumption and this trend is likely to continue as Australia's population increases. In contrast, a projected decrease in demand is expected from the manufacturing industry which traditionally has been the largest downstream market. This has been attributed to reduction in manufacturing output over recent years.

Industry growth related to projected demand relating to forecasted increases in electricity prices is dependent on the Gas Supply and Distribution industry being able to maintain or lower domestic prices over the next five years as local producers begin to trade on the world market. It is speculated that domestic gas prices will increase until 2017, and as local export projects come online and international markets adjust to global supply growth the domestic price will decrease from 2018 onwards.

The UEG11 Gas Industry Training Package provides the only Vocational Education and Training (VET) qualifications for occupations involved in the manufacture and distribution of town gas through a system of mains and pipelines.

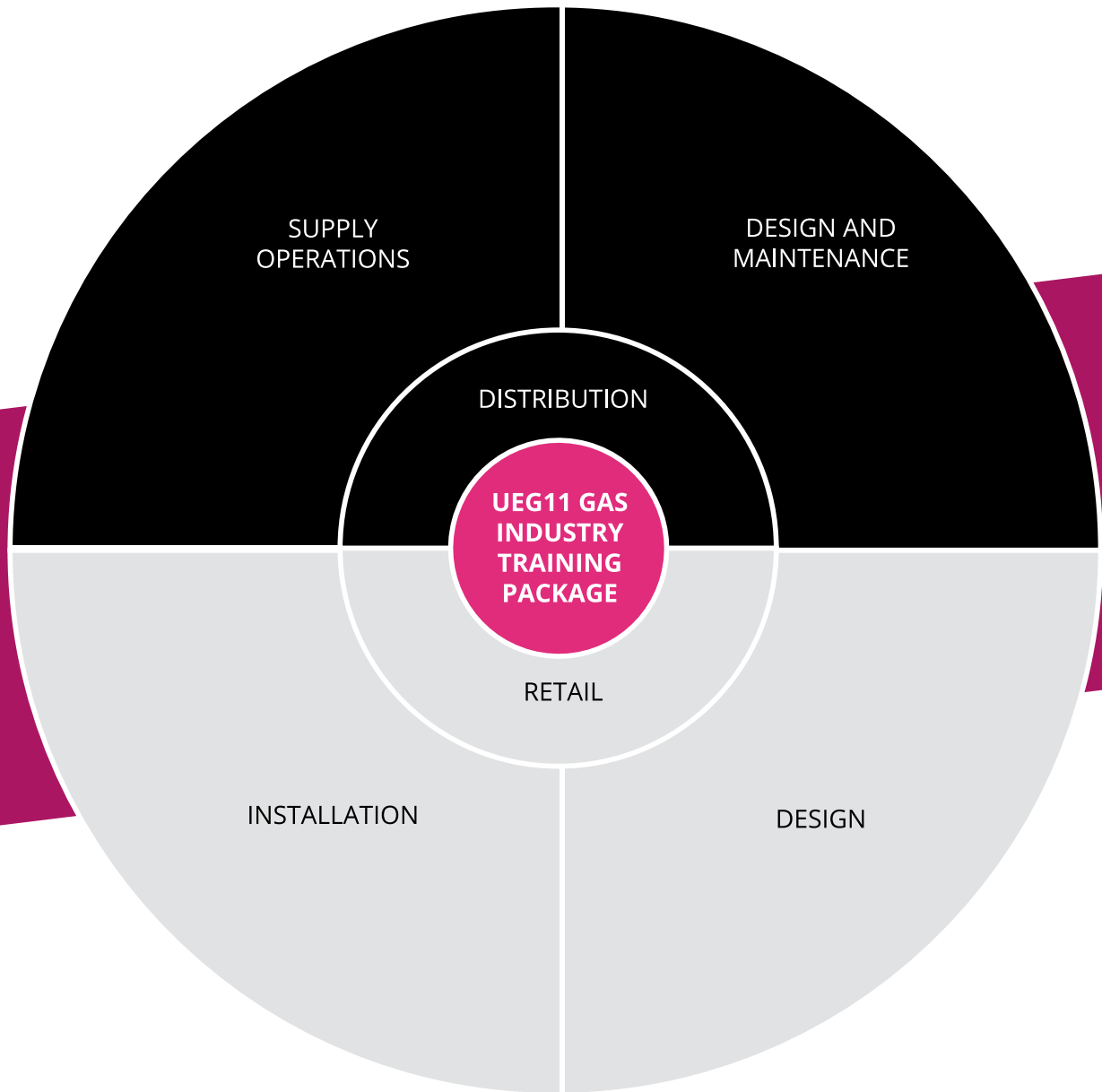
The UEG11 Gas Industry Training Package comprises five qualifications, six skill sets, 111 units of competency and associated assessment requirements and covers gas supply and distribution operations.

The UEG11 Gas Industry Training Package contains the following qualifications:

- Certificate II in Gas Supply Industry Operations
- Certificate III in Gas Supply Industry Operations
- Certificate IV in Gas Supply Industry Operations
- Diploma of Gas Supply Industry Operations
- Advanced Diploma of Gas Supply Industry Operations



UEG11 GAS INDUSTRY TRAINING PACKAGE ARCHITECTURE



SECTOR OVERVIEW

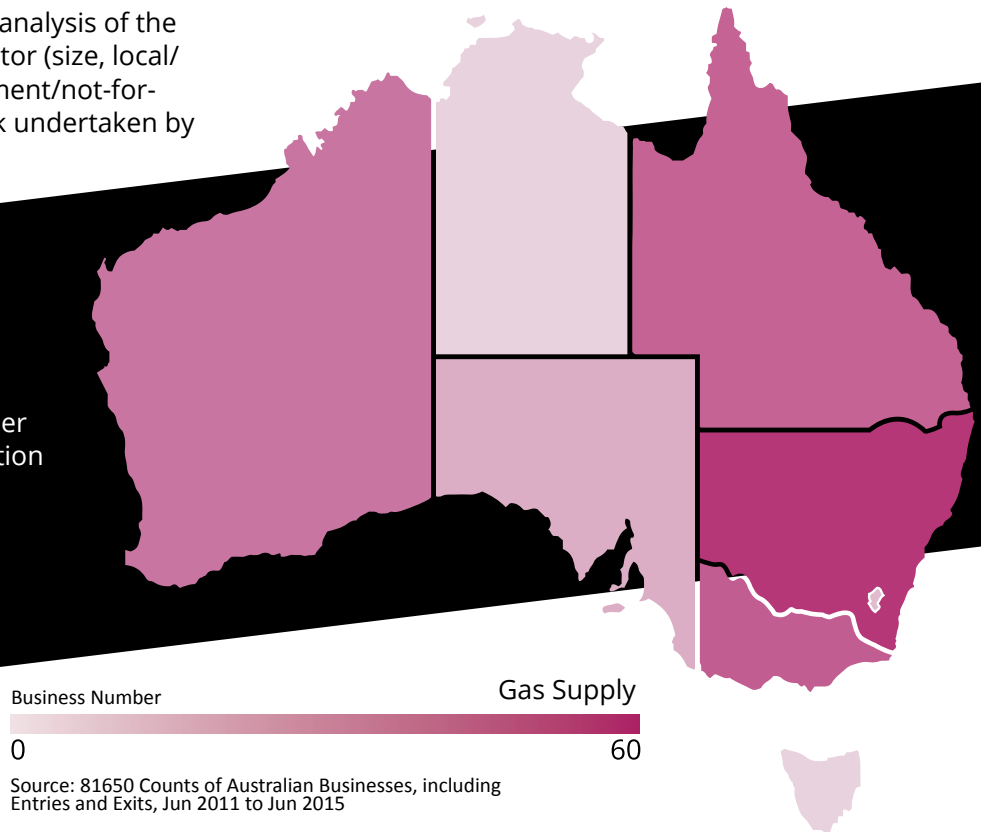
FRONT PAGE



GAS BUSINESS ANALYSIS

The following image provides analysis of the businesses involved in the sector (size, local/state/national/global, government/not-for-profit/for-profit, scope of work undertaken by those businesses).

WA is home to the greatest concentration of businesses per capita with lowest representation in SA, NT and Tasmania.

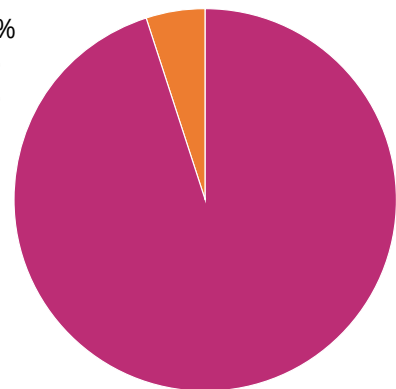


Business Analysis Metrics

Revenue (\$ m)	10,841.20
Profit (\$ m)	1600
Average Wage (\$)	98,766.30
No. of Businesses	235
Employment Growth (% to 2021)	3%

Business Size (Composition)

Small	95%
Medium	5%
Large	0%



Note: The Counts of Australian Businesses data classifies industries by the single predominant industry class associated with a business' ABN. This can result in large organisations with wide responsibilities being left out of the data.



KEY GAS STAKEHOLDERS

Stakeholder Category	Organisation	
Employers	APA group Atcogas Australia Downer Group ELGAS Gas Energy Australia Jemena Multinet	Origin Energy Queensland Gas Company Select Solutions SP AusNet Gas Thiess United Energy Zinfra
Employer Representatives	Australia New Zealand Industrial Gas Association Australian Gas Association Australian Petrol Production & Exploration association	Australian Pipelines and Gas Association Energy Networks Association Gas Appliance Manufacturers Association of Australia
Employee Representatives	Australian Workers Union Transport Workers Union	
Licensing/Regulatory	Access Canberra Australian Energy Regulator Gas Technical Regulators Committee	
Government	Federal, State/Territory Departments	
Industry Advisory	Electrotechnology, Power and Communications Industries Industry Training Board – Victoria Energy Skills - QLD Energy Skills - SA Industry Skills Advisory Council - NT Power and Water Corporation - NT	Utilities and Electrotechnology Industry Training Advisory Board - NSW Utilities, Engineering, Electrical and Automotive Training Council Utility Market Intelligence Industry Skills Advisory Council - NT
Training Organisations	TAFEs, Private RTOs, Enterprise RTOs	

The UEG11 Gas Industry Training Package is in the Scope of Registration of 14 Registered Training Organisations.



INDUSTRY CHALLENGES & OPPORTUNITIES

INCREASING REGULATORY BURDEN

The National Gas Law and the National Gas Rules provide the legal framework for the economic regulation of gas distribution, and provide a framework for pricing. The industry also faces overlapping state regulations relating to every aspect of the industry, from handling and distribution to installation¹. Industry reports describe this regulatory burden as heavy and steadily increasing².

As one of the main factors cited by industry³ as a barrier to general business activities, it should come as no surprise that higher rates of government regulation are resulting in significant growth in the compliance workforce⁴.

EMPLOYMENT

A row of six industrial meters, numbered 301 to 306 from right to left, mounted on a wall. The meters are connected to a network of white pipes. The image is in grayscale and serves as a background for the top section of the page.

EMPLOYMENT STATISTICS

WORKFORCE CHALLENGES AND OPPORTUNITIES

A close-up, grayscale photograph of a person wearing a hard hat and safety glasses. The person is looking down, and their hands are visible, holding a tool or device. The image is overlaid with a semi-transparent magenta filter and serves as a background for the bottom section of the page.

FRONT PAGE



EMPLOYMENT

EXPLANATORY NOTES

Workforce

The size of an industry's workforce is established by the Australian Bureau of Statistics (ABS) using two different approaches. The Labour Force survey, which provides a 30-year view of the industry, assigns each industry category based on the main job of the respondent. The Australian Industry dataset (which the Workforce Projections charts are based on), uses a top-down approach where industries are primarily classified by the single predominant industry class associated with a business' ABN. An industry's workforce therefore is bounded in the first instance by the occupations of workers and in the second by the primary business of an enterprise. The different approaches can therefore result in quite different workforce figures.

AIS has chosen to distinguish these approaches using the terms **Workforce – Occupation based** and **Workforce – Employer based**.

Enterprise size

Industry definition by ABN also applies to the Counts of Australian Businesses data (size and distribution). Furthermore, low-level values in these tables are subject to perturbation to anonymise the data. This may result in some areas with a low level value being perturbed to zero.

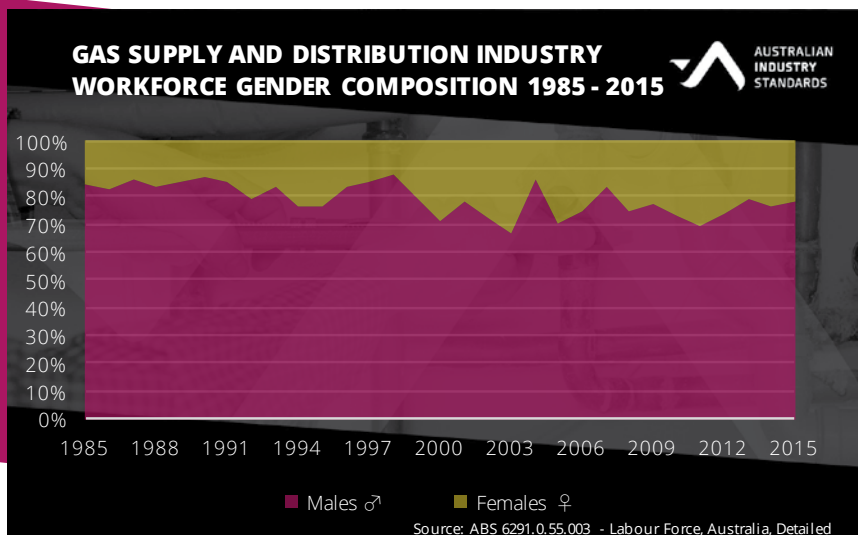
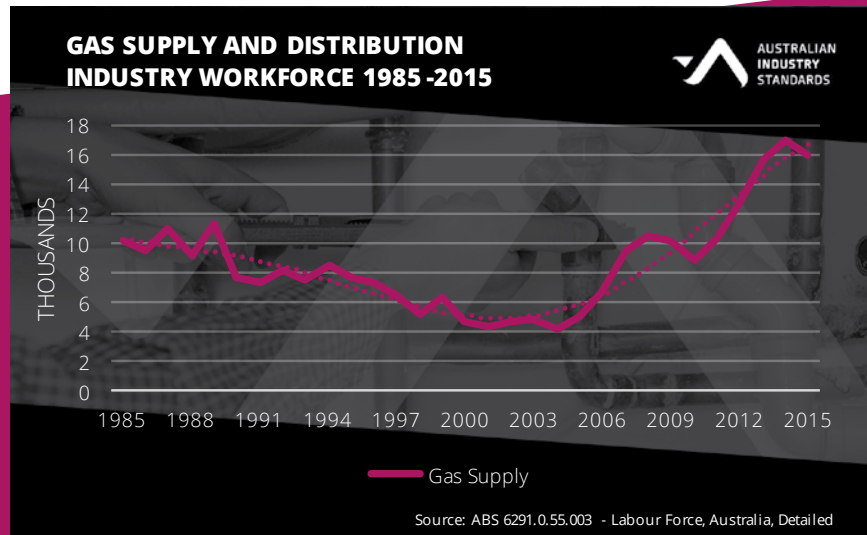
Exemptions

The scope of the Labour Force Survey is limited to the civilian population of Australia and therefore members of permanent defence forces are excluded from the survey.



EMPLOYMENT HISTORY - OCCUPATION BASED

The Gas Supply and Distribution industry workforce has more than quadrupled since 2004.

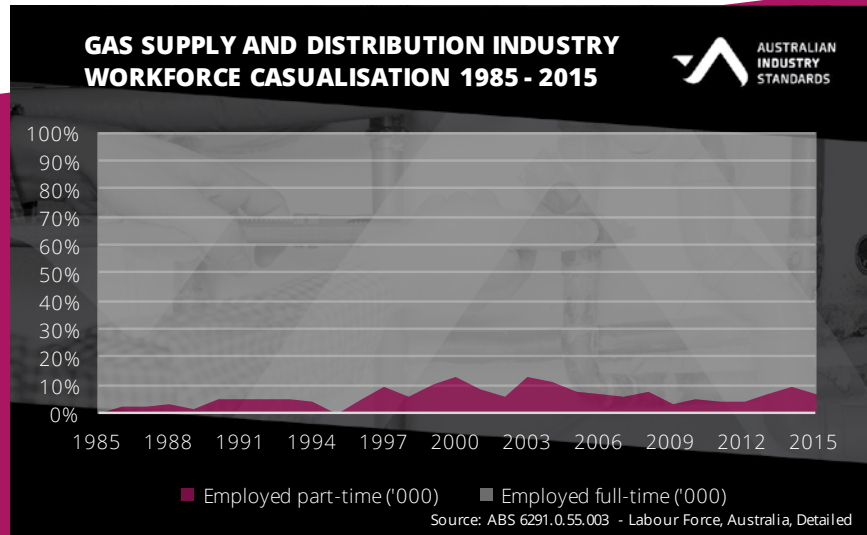


The proportion of females in the industry has grown from 16% to 22% while the absolute number has more than doubled.

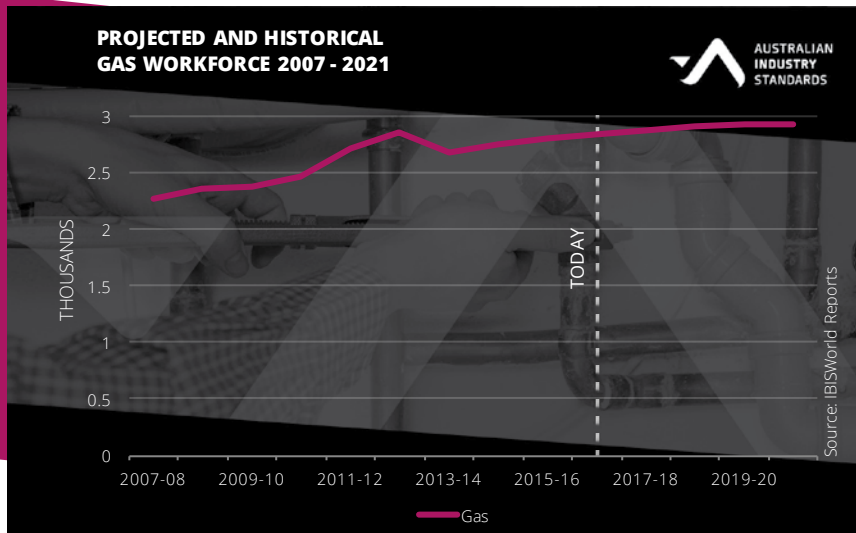
**EMPLOYMENT
FRONT PAGE**



Part-time work in the Gas Supply and Distribution industry has mostly remained below 10% over the last thirty years.



EMPLOYMENT PROJECTION - EMPLOYER BASED



The workforce is significantly underestimated in this projection, being consistently 2.2 times smaller than the same measure in Census 2006 and 2011. That said, it is expected that the industry will grow by 3% in the next five years.

**EMPLOYMENT
FRONT PAGE**



WORKFORCE SUPPLY-SIDE CHALLENGES AND OPPORTUNITIES

AGEING WORKFORCE

The percentage of utilities workers aged 45 and older has grown considerably in recent decades from just under 30 per cent of the workforce 30 years ago to 46 per cent today, a full seven percentage points higher than average⁵.

Though projected employment growth for the next five years is expected to be flat⁶, more than 8 per cent of the workforce will need to be replaced in that period to account for workers over 60 today.

Cost cutting by asset owners, particularly in the gas supply chain⁷, will require increased Government support to meet future training requirements.

TECHNOLOGY ADOPTION

An ageing workforce profile is not ideal when adopting new technology. While many new sophisticated technologies are entering the market, such as Gas Leakage survey detection drones⁸ and Directional Drilling⁹, new types of equipment are also replacing standardised equipment which has been in place for decades, e.g: Gas Valve Technology¹⁰.

As new technologies demand entirely new skills from the workforce, industry will need to overcome any reluctance it might have against adopting new technologies. Smart gas meters, for example, can offer gas retailers and their customers many of the benefits advanced meters have already provided to the electricity sector.

The technology provides more accurate information about daily consumption and also allows remote disconnection and meter reading, saving gas retailers time and money¹¹.

Despite the obvious benefits and widespread implementation elsewhere¹², there are no plans for major smart gas meter installations in Australia.



STRONG COMPETITION FOR SKILLED WORKERS

Employment in the Oil and Gas Extraction industry more than doubled in the last decade¹³ drawing many skilled Gas Supply and Distribution workers into the mining industry. Employment in Extraction is expected to grow further by 12 per cent in the coming five years to more than 30,000 when it will be ten times the size of the Gas Supply industry. The age profile contrasts markedly against the Gas Supply and Distribution industry with more than 30 per cent of the workforce under 35¹⁴.

The comparative size and growth of the industry and the ability to offer high wages is likely to put downward pressure on the Gas Supply and Distribution workforce where it's needed most, among young entrants.



**EMPLOYMENT
FRONT PAGE**

SKILLS OUTLOOK



**INTERNATIONAL
/ NATIONAL
WORKPLACE
TRENDS**



PRIORITY SKILLS

FRONT PAGE



SKILLS OUTLOOK

INTERNATIONAL / NATIONAL WORKPLACE TRENDS

The Gas Supply and Distribution industry is responding to sophisticated technologies such as gas leakage survey detection drones and directional drilling. Further to this are the new types of equipment replacing standardised equipment which has been in place for decades, for example Gas Valve Technology.

As new technologies demand entirely new skills from the workforce, industry will need to overcome any reluctance in adopting new technologies. With an ageing workforce, both job and workplace redesigning will require concurrent strategies to retrain and introduce new approaches to information management as delivered through these technologies.

The technology provides improved information accuracy about daily consumption and also allows remote disconnection and meter reading, improving consumer confidence and knowledge as well as workplace efficiencies.



PRIORITY SKILLS

GAS SUPPLY AND DISTRIBUTION TECHNICAL SKILLS

Australian Industry Standards has developed this list of technical skills from analysis of the qualifications in the UEG11 Gas Industry Training Package.

These skills can be grouped into nine categories:

1. Gas Distribution
2. Gas Transmission
3. Cathodic Protection
4. Control Centre
5. Liquefied Petroleum Gas (LPG) Handling
6. Gas Pressure Control
7. Utility Asset Management
8. Pipeline Operations
9. Gas Station Operation

The interim IRC Chair strongly indicated that Gas Supply and Distribution industry Technical Skills were the highest priority.

GENERIC SKILLS

Ranking of the 12 generic workforce skills in order of importance to the Gas Supply and Distribution industry.

Skill	Priority
Technology	1
Language, Literacy and Numeracy (LLN)	2
Learning agility / Information literacy / Intellectual autonomy and self-management	3
Environmental and Sustainability	4
Design mindset / Thinking critically / System thinking / Solving problems	5
Managerial / Leadership	6
Communication / Virtual collaboration / Social intelligence	7
Science, Technology, Engineering, Mathematics (STEM)	8
Financial	9
Customer service / Marketing	10
Data analysis	11
Entrepreneurial	12



PRIORITY SKILLS

The list of priority skills below is based on advice from the interim Gas Industry Reference Committee Chair.

The priority skills are listed below in order of importance to the Gas Supply and Distribution industry

Skill	Priority
Gas Transmission	1
Control Room Operations	2
Safety	3
Equipment Testing and Maintenance	4
Installation	5



GAS SKILLS - RELATED INSIGHTS

The Gas Supply, Transmission, Distribution and Gaseous Fuels industry is a major provider of energy resources to Australian business and the community. It faces a number of challenges in adapting to and utilising new technology and the consequent need for relevant training and skills.

The Gas Supply and Distribution industry employs around 16,000 people directly with a large number of small operators, such as plumbing firms, that install and maintain gas products. The industry had an estimated revenue \$10.8 billion, adding \$2 billion to the Australian economy in 2015-16.

There has been an increasing demand for domestic gas use over the past 30 years, with domestic consumption forecast to grow while industry demand, particularly manufacturing industry, will decrease.

The interim Gas Industry Reference Committee (IRC) Chair has strongly indicated that Gas Supply and Distribution Industry Technical Skills are the highest priority for the industry. It has highlighted the need for a balance of technical and human skills to prepare the workforce for current and future challenges. Technical skills focus on areas related to Gas Distribution, Gas Transmission, Cathodic Protection, Control Centre, Liquefied Petroleum Gas (LPG) Handling, Gas Pressure Control, Utility Asset Management, Pipeline Operations and Gas Station Operation.

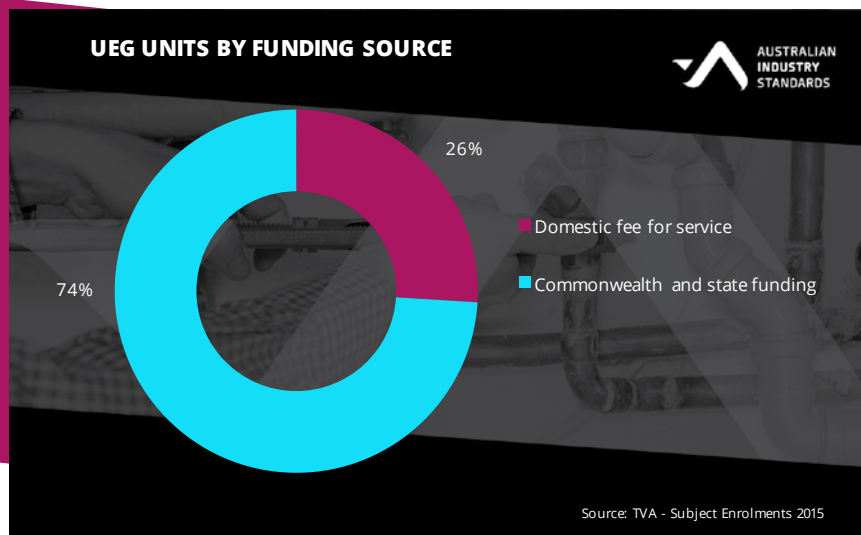
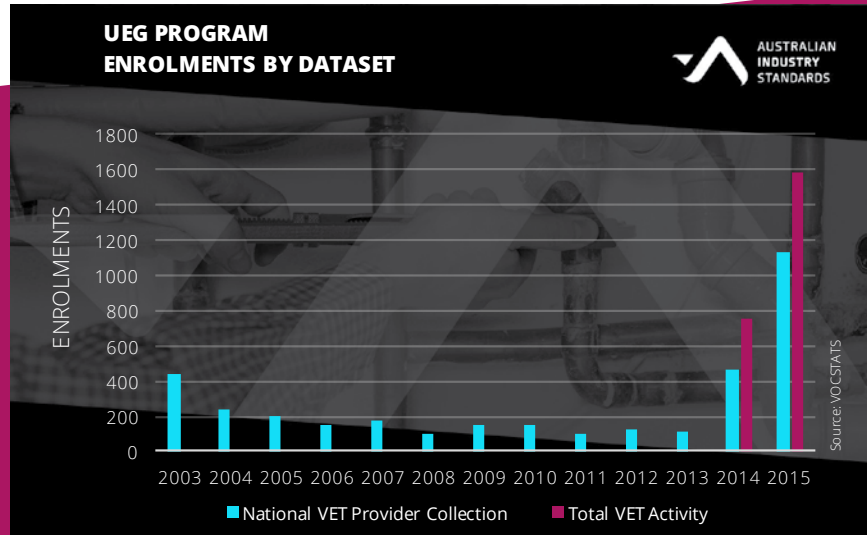
The industry is heavily regulated at both the Commonwealth and State levels, from handling and distribution to installation and maintenance. Alongside this regulation is the need to ensure workers are properly skilled to meet the new technologies such as drones and smart gas meters that can assist in monitoring and maintenance of gas distribution systems.

Industry stakeholders have noted the competition for skilled workers in this industry, particularly from the mining sector, and the need to ensure proper training and skills development to meet the increasing demand and the influx of new technologies to install and maintain the systems and products.

The industry is supported by the UEG11 Gas Industry Training Package consisting of a range of qualifications for occupations around the manufacture and distribution through mains and pipeline systems. Total VET activity enrolments have increased markedly over the past two years.



There has been a significant uptake in enrolments in the last two years which has been corroborated across two datasets.



Government funding for the UEG11 Gas Industry Training Package comprised almost three quarters of the total in 2015



The percentage of utilities workers aged 45 and older has grown considerably, from just under 30 per cent of the workforce 30 years ago to 46 per cent today, a full seven percentage points higher than other industry averages.

The Gas Supply and Distribution workforce has more than quadrupled since 2004 due to increasing demand, and is forecast to grow by 3 per cent through to 2021, while some 8 per cent of the current workforce is due to retire over that period.

The industry also offers opportunities for local producers to operate on global energy markets, with a number of local export projects to come on line over the next two years.

EXPLANATORY NOTES

The Training Enrolments charts compare two datasets; the **National VET Provider Collection** and the **Total VET Activity (TVA)** dataset. The primary distinction between the two is that Total VET Activity data is collected from all types of providers and not only those in receipt of Commonwealth or state funding. TVA data collection commenced in 2014.

Exemptions

Where the submission of training data to TVA conflicts with defence or national security legislation, or jeopardise the security or safety of personnel working in defence, border protection, customs or Australian police departments, an exemption from reporting training data is available.

Organisations that deliver training for vital services to the community (such as emergency, fire, first-aid and rescue organisations) may have received an exemption to submit data to TVA. From 1 January 2016 however, the exemption from reporting will apply only in respect of training activity not delivered on a fee-for-service/commercial basis.



REFERENCES

INDUSTRY CHALLENGES AND OPPORTUNITIES

¹ Gas Technical Regulators Committee. Gas Regulations and Standards

² IBISWorld Gas Supply in Australia Industry Report - D2700

³ Source: ABS (2015) Business Characteristics Survey

⁴ Deloitte. Rules eat up \$250 billion a year in profit and productivity <http://www2.deloitte.com/au/en/pages/media-releases/articles/rules-eat-up-250-billion-a-year-271014.html>

WORKFORCE SUPPLY-SIDE CHALLENGES AND OPPORTUNITIES

⁵ ABS. Employed persons by Age and Industry division of main job (ANZSIC).

⁶ Labour Market Information Portal. Industry Projections five years to 2020.

⁷ Supply Management. Cost cutting 'top priority' for oil and gas sector. <http://www.cips.org/supply-management/news/2016/february/cost-cutting-top-priority-for-oil-and-gas-sector/>

⁸ GasandOil.com.au. Monitoring Fugitive Methane Emissions Utilizing Advanced, Small Unmanned, Aerial Sensor, Technology – Drone. <http://gasandoil.com.au/methane-gas-monitoring-drone/>

⁹ Utility Magazine. What is the current capability of the HDD industry, and where is it heading in the future? <http://www.utilitymagazine.com.au/what-is-the-current-capability-of-the-hdd-industry-and-where-is-it-heading-in-the-future/>

¹⁰ Valve Magazine. Modular Gas Valves: An Insiders' Guide to Technology Breakthroughs <http://www.valvemagazine.com/webonly/categories/technical-topics/5162-modular-gas-valves-an-insiders-guide-to-technology-breakthroughs.html>

¹¹ Australian Energy Regulator. Multinet Network Asset Management Plan. <https://www.aer.gov.au/system/files/D-1%20Network%20AMP%20for%20AER%2018072012%20-%20Tables%205-5%20and%205-11%20blacked%20out.pdf>

¹² Department of Energy and Climate Change UK. Smart Meters Quarterly Report. https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/533060/2016_Q1_Smart_Meters_Report.pdf

¹³ IBISWorld. B0700 Oil and Gas Extraction in Australia Industry Report. OD5529 Coal Seam Gas Extraction in Australia Industry Report

¹⁴ Census 2011 Employment Income and Unpaid Work. Oil and Gas Extraction



UEG11 GAS INDUSTRY TRAINING PACKAGE REVIEW PLAN 2016/17 - 2019/20

REVIEW PLAN – TIMING AND PRIORITISATION

The Training Package Workplan priorities will be constantly monitored and formally reviewed annually by the IRC. This will allow the Workplan to remain at the forefront of the IRC goals and objectives and have the flexibility to respond to the industry needs as they arise.

The Gas IRC does not anticipate that any of the UEG11 Gas Training Package qualifications, skill sets or units of competency contained within the Training Package will be required to be reviewed more than once in the four-year period. The exception to this would be where there is regulatory or legislative change, or industry driven change due to safety requirements or specific technology advancement.

The Gas IRC has not identified any training product that is expected to be contentious or lengthy in terms of development timelines.

TRANSITION

2016 – 2018

Once established, the Gas IRC will set the direction of activities for the UEG11 Gas Training Package transition to the Standards for Training Packages. The work covers the transition of all five qualifications in the UEG Gas Package and the relevant units of competency and skill sets.

The planning and prioritisation of work to transition the Gas Rail Training Package is contingent on the establishment of the Electrotechnology IRC, as the UEG11 Gas Training Package has a number of interrelated dependencies on the Electrotechnology Training Package. Both the Gas and Electrotechnology IRC are under review by the AISC.

Gas industry stakeholders have identified the review of the following unit of competency to be a priority within the transition to the Training Package Standards:

- UEGNSG216A - Commission or decommission gas distribution pipelines

This unit of competency has been identified for review due to changes in workplace practices for the commissioning and decommissioning of gas distribution pipelines.

Gas industry stakeholders have also identified the need to review the following qualifications as a priority within the transition to the Training Package Standards:

- Certificate III in Gas Supply Industry Operations
- Certificate IV in Gas Supply Industry Operations



The review would enable the alignment of these qualifications to support career pathways across the gas supply chain, including gas transmission, distribution, retail and gas appliances. A number of existing units in other Training Packages, such as the Construction, Plumbing and Services Training Package, have been identified as suitable for importing into the abovementioned qualifications.

Due to technology advancements in control systems and emergency procedures specific to the Gas Supply and Distribution industry, and the increased use of PE Butt fusion technology, the following two units have been identified for development and inclusion in the review of the Certificate III in Gas Supply Industry Operations and Certificate IV in Gas Supply Industry Operations:

- Control emergencies on site
- PE Butt fusion larger than 160mm

These proposed new units of competency have been identified as urgent by relevant industry stakeholders who have advised that work had already been initiated on these particular units under the previous ISC arrangements. To ensure an expedient outcome, it is proposed that this development work is aligned with the work to transition these qualifications to the Standards for Training Packages

2017 - 2020

The Gas IRC will identify Training Package review and development priorities, for Workplan inclusion, once it has been formed.

LEGISLATIVE / REGULATORY REQUIREMENTS

Any legislative or regulatory change requirements identified, would take precedence over other reviews planned as these are often associated with higher workplace risk.

As legislation or regulations are updated the UEG11 Gas Training Package and Companion Volume affected need to be updated, to reflect the change in legislative or regulatory requirements by a due date, generally the effective date of the legislative or regulatory change.



INTERDEPENDENCIES

Gas Industry Training Package qualifications are reliant upon imported units of competency within qualification packaging rules. Industry sector interdependencies that will potentially initiate future UEG qualification and/or skill set reviews include imported units from 16 interdependent Training Packages (inclusive of predecessor releases):

- BSB07 - Business Services Training Package
- CPC08 - Construction, Plumbing and Services Training Package
- CPP07 - Property Services Training Package
- HLT - Health
- MEM05 - Metal and Engineering Training Package
- MSA07 - Manufacturing Training Package
- MSS11 - Sustainability Training Package
- PMA08 - Chemical, Hydrocarbons and Refining Training Package
- PMB07 - Plastics, Rubber and CABLEmaking Training Package
- PMC10 - Manufactured Mineral Products
- RII - Resources and Infrastructure Industry Training Package
- TLI10 - Transport and Logistics Training Package
- UEE11 - Electrotechnology Training Package
- UEP12 - Electricity Supply Industry - Generation Sector Training Package
- UET12 - Transmission, Distribution and Rail Sector Training Package
- MSM - Manufacturing Training Package

IRC Training Product Review Plan – 2016/17 – 2019/20
Gas Industry Reference Committee
Contact details: GM IRC Operations, Australian Industry Standards
Date submitted: 30 September 2016

Planned review start (Year)	Training Package code	Training Package name	Qualification code	Qualification name	Unit of competency code	Unit of competency name
2016-2018	UEG11 – GAS Industry Training Package		UEG20114	Certificate II in Gas Supply Industry Operations	All Training Package Components to be transitioned to the 2012 Standards for Training Packages. This work has commenced as per the executed Additional Activity Order	
			UEG30114	Certificate III in Gas Supply Industry Operations		
			UEG40114	Certificate IV in Gas Supply Industry Operations		
			UEG50114	Diploma of Gas Supply Industry Operations		
			UEG60114	Advanced Diploma of Gas Supply Industry Operations		
2016-2018	UEG11 – GAS Industry Training Package		Review unit to align to changed workplace practices.		UEGNSG216A	Commission or decommission gas distribution pipelines

Planned review start (Year)	Training Package code	Training Package name	Qualification code	Qualification name	Unit of competency code	Unit of competency name
2016-18	UEG11 – GAS Industry Training Package		UEG30114 -Certificate III in Gas Supply Industry Operations UEG40114 - Certificate IV in Gas Supply Industry Operations		Review to ensure alignment with current skills needs of industry. This review will explore the viability of importing existing units from other Training Packages. This review is proposed is to be undertaken concurrently with the transition to the Standards for Training Packages.	
					NEW	Control emergencies on site
					NEW	PE Butt fusion larger than 160mm
2018-2020	UEG11 – GAS Industry Training Package			To be prioritised with formation of IRC		

Appendix A

FRONT PAGE



AUSTRALIAN INDUSTRY STANDARDS

Australian Industry Standards (AIS) provides high-quality, professional secretariat services to the Gas Industry Reference Committee, in our role as a Skills Service Organisation.

AIS provide services to 11 allocated IRCs which cover the Gas, Electricity, Electrotechnology, Corrections, Public Safety (including Police, Fire Services, Defence), Water, Aviation, Transport and Logistics, Rail and Maritime industries. AIS supports these important industry sectors using our world-class in-house capability and capacity in technical writing, quality assurance, project management and industry engagement in the production of Training Packages.

AIS was established in early 2016, 20 years after its predecessor the Transport and Logistics Industry Skills Council (TLISC) was established in 1996. More information about AIS can be found at www.australianindustrystandards.org.au

- We support industry growth and productivity through our modern innovative approach to establishing skills standards
- We provide high-quality, professional secretariat services to help our allocated industry reference committees develop the skills that industry needs
- We partner with industry to shape the workforce of the future



AUSTRALIAN
INDUSTRY
STANDARDS



AUSTRALIAN INDUSTRY STANDARDS

P (03) 9604 7200

E enquiries@australianindustrystandards.org.au
Level 2, 31 Market Street South Melbourne 3205

FRONT PAGE