

## GAS NETWORKS TECHNICIAN

### EDUCATIONAL PATHWAYS

#### Entry Level

##### [UEG20121 - Certificate II in Gas Supply Industry Operation](#)

This qualification provides competencies for entry-level gas supply industry activities in transmission, distribution pipeline and cylinder operations and functions as outlined below:

*Distribution pipeline activities*, including laying distribution infrastructure (including pipes); developing gas pipeline infrastructure and reading gas meters in industrial, commercial and rural environments, on pipelines, associated facilities and equipment, and control centres.

*Transmission pipeline activities*, including right of way preparation, rigging operations, hydrotesting, laying pipelines, operating transmission pipeline construction plant and equipment, and conducting minor mechanical maintenance.

*Gas cylinder operations* for domestic and industrial supply of gaseous fuels, including checking, testing, maintaining and filling of gaseous fuel cylinders and the storage, handling, loading, transportation and distribution of cylinders in accordance with the relevant Australian Standards and regulatory requirements.

##### [UEG30121 - Certificate III in Gas Supply Industry Operations](#)

This qualification provides competencies to conduct gas supply industry activities, including installation, maintenance, fault find and repair, operations of distribution and transmission gas pipelines, cylinders and associated equipment.

After successfully completing applicants commencing an apprenticeship as a gas network technician can choose to enrol into either of the following qualifications depending on their job role.

##### [UEG40120 - Certificate IV in Gas Control Operations](#)

This is a qualification for a person who works in a gas Control Centre/gas control room environment.

It provides competencies to monitor and control the flow and pressure of natural gas within transmission, distribution, storage and gathering systems, and respond to routine and emergency situations using a wide range of industry response procedures. It may also include responsibility for coordinating the work of others.

##### [UEG40221 - Certificate IV in Gas Supply Industry Operations](#)

This qualification provides competencies to supervise and conduct gas supply industry activities, including installation, diagnostics and maintenance of distribution and transmission gas pipelines, cylinders and associated equipment.

##### [UEG50120 - Diploma of Gas Supply Industry Operations](#)

This qualification provides competencies to manage gas supply industry activities, including management of projects covering the installation, diagnostics and maintenance of distribution and transmission gas pipelines and associated equipment.



For further information or advice contact

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## GAS NETWORKS TECHNICIAN

### CAREER PATHWAYS/SPECIALISATIONS

The Gas Supply industry employs approximately 16,000 workers nationwide across its four subsectors in gaseous fuel storage and distribution, gas retail, transmission operators, and distributors. The industry's revenue was \$15.49 billion in 2019-20. New technological and digital innovations have transformed the industry operations. Workers are increasingly more connected via tablets, sensors, and other wearable technologies. Operations and asset maintenance is being automated via robots which enable remote monitoring and enhance workers safety.

#### Evaluation and advisory service technician

Working as a specialist to evaluate current gas distribution systems for industrial or commercial enterprises as well as checking for leaks and safety issues provides another career pathway option. This role requires a strong background in installation and maintenance of gas distribution systems as well as the ability to trouble shoot and come up with innovative ways to save on production costs and improve workplace safety.

#### Data Analyst

In this role, you will be responsible for the research and tracking of asset-level data as part of our industry-leading data analytics in the power, natural gas, coal and renewable markets. You will become an expert on power plants, energy companies, transmission lines, and gas pipelines, learning the core operations of the business and tracking the key industry metrics reported by energy producers.













#### Robotics and technology specialist

Robotics are beginning to replace humans by completing dangerous and repetitive tasks associated with drilling and extracting gas from underground. Drones are being used to trouble shoot issues on work sites and along pipelines as well as checking terrain to assist in planning the route of a pipeline. For those working in isolated locations the use of drones and computer programs provides invaluable assistance to complete accurate and safe maintenance checks. Specialising in this field will provide you with the opportunity to be at the "cutting edge" of the gas industry.

#### Mining industry – drilling engineer

There are different roles within the mining industry that you may like to consider working towards once you have gained experience and qualifications as a gas technician. One of these is a drilling engineer whose responsibility is to determine the best way to drill an oil or gas well, while considering a number of factors, such as environmental conditions, quality of resource, flow rates and cost. They also ensure that the drilling process is safe, minimally disruptive to the environment, and efficient.

For further information relating to this job. Search the following web sites by clicking on the logos or scanning the QR code

		
Energy Australia 	Clean Energy Council 	Robotics Australia 
		
NSW UE ITAB 	Gas Energy Australia 	MAE 

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## GAS NETWORKS TECHNICIAN

### HINTS ON HOW TO APPLY FOR THIS JOB

The 11 steps below outline the process you could follow to assist you to secure an apprenticeship as a gas networks technician -

**Step 1.** identify your strengths and weaknesses, especially in maths and literacy as these are essential to being successful in a gas network technician's career. Intermediate maths with a solid pass mark is the minimum. Additionally, subjects like technical drawing and metalwork, woodwork or engineering will give you some basic hand spatial and situational awareness skills that employers look for.

**Step 2.** decide where you want to work; are you willing to relocate to get your dream job? There may be more opportunities in cities than in regional areas.

**Step 3.** do some research, as to who the key employers are in the utilities industry and choose the specialisation that you most like then make enquiries to see if they will take on apprentices.

**Step 4.** research information about these employers or companies that you would like to work for; find out what the entry requirements or essential criteria are that must be met; such as do you need to complete an aptitude or other entry test before getting an interview?

**Step 5.** make a shortlist of potential prospective employers to contact. You may also like to chat to your job search agent or search some of the online employment agencies such as SEEK, Jobsearch, Indeed or LinkedIn to find job vacancies for audio-visual or data communication technicians in your region.

**Step 6.** create a quality resume by identifying key elements that should be included therein, and incorporate your academic achievements, experience, interests and passions.

**Step 7.** identify and practice some interview skills with friends, parents or career advisors to learn tips on how best to perform in an interview.

**Step 8.** contact potential employers by writing or directly calling them to demonstrate your interest and communication skills. Prospective employers highly value self-starters and prospective career aspirants with initiative who take such steps to seek for themselves employment as an apprentice.

**Step 9.** talk with the prospective employer about the work they do and if they would be interested in taking you on as an apprentice. If you are still at school, you may be able to take up a school-based apprenticeship. There are opportunities available in some schools that allow you to take on a part-time apprenticeship known as a School-Based Apprenticeship or Traineeship (SBAT). Ask your school if they support this government initiative and ask the employer if they would be interested in such an arrangement. SBATs are a really good way to allow you to finish school and at the same time learn and earn as an apprentice.

**Step 10.** Your employer should contact the Australian Apprenticeship Support Network (AASNs) - <https://www.australianapprenticeships.gov.au/> for further information on how to sign you up.

**Step 11.** sign up to your apprenticeship with your employer (and support of your family if you are under 18 years old) to start "learning and earning" to be a gas networks technician.

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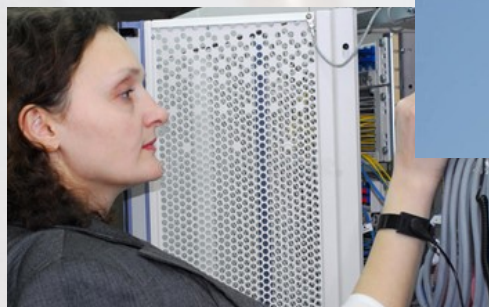


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HAVE YOU CONSIDERED THESE RELATED JOBS?

Other occupations in the electrotechnology or utilities industries that you might like to research are -

- ⇒ Business equipment technician
- ⇒ Lift mechanic
- ⇒ Electrician
- ⇒ Electrical fitter
- ⇒ Refrigeration and air conditioning mechanic
- ⇒ Cable jointer
- ⇒ Powerline technician
- ⇒ Electronics technician
- ⇒ Computer systems technician
- ⇒ Instrumentation technician
- ⇒ Audio visual communications technician



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