

# GAS TECHNICIAN

Learn the fundamentals of heating, ventilation, air handling, electrical systems and multi-fuel heating systems. Experience the challenges in the installation, service and maintenance of gas, propane, oil fired burners, furnaces, boilers and hot water heaters, domestic and non-vented appliances and domestic gas fired refrigerators. Understand how to fabricate fuel delivery systems set up and adjust combustion efficiencies, size ventilation systems and combustion air requirements.

The Gas Technician program is the starting point for technicians in the gas field and includes Gas Tech 3 and Gas Tech 2 training. If a technician has little or no prior experience in the gas industry, this program is the best place to begin. This unique 36 week program combines academic study with supervised workshop hands on experience. The curriculum is designed by TSSA under the Technical Standards and Safety Act (TSSA). Faculty members are certified Gas Technicians, Electricians, Refrigeration and Air Conditioning Mechanics and Sheet metal workers who have working experience in the HVAC industry in Canada. Graduates of this program must successfully complete the TSSA Gas Technician Certification Examination to be eligible to work as a licensed Gas Technician.

Students who complete our structured course will receive theory instruction together with the hands-on training methodology taught by highly trained instructors. Areas of study include; protect self and others, fasteners, hand tools and power tools, properties, characteristics and safe handling of propane and natural gas, installation codes, acts, regulations, introduction to electricity and technical manuals, specifications, schematics and drawing codes.

**Program length: 36 weeks**

## ▸ ADMISSION REQUIREMENTS

- Minimum of a Canadian high school grade 12 or equivalent, or a mature student
- Pass an entrance test administrated by Herzing
- Be interviewed in detail regarding interest in the field
- Meet any additional program specific entrance requirements

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## ▸ COURSE LIST

– Advanced Piping and Tubing Systems	– Protect Self and Others
– Basic Electricity	– Fasteners, Hand Tools and Power Tools
– Controls (Mechanical and Electric)	– Venting Practices
– Building as a System	– Installation Codes, Acts and Regulations
– Gas Meters, Pressure Regulators and Relief Valves	– Introduction to Electricity
– Forced Warm Air Heating Systems	– Space Heating and Decorative Appliances
– Domestic Gas Fired Refrigerators	– Customer Relations
– Conversion Burner	– Introduction to Gas Appliances
– Water Heaters and Combo Systems	– Introduction to Piping and Tubing Systems
– Venting Practices	– Hydronic Heating Systems
– Forced Air Add-On Devices	– Space Heating and Decorative Appliances
– Technical Manuals, Specifications, Schematics, Drawings and Graphs	
– Properties, Characteristics, Safe Handling of Propane and Natural Gas	

## ▸ CAREER OUTLOOK

Students who hold a Gas Technician certification can carry out the following functions: install, test, activate or purge gas piping or tubing that is less than two and one half inches in diameter or a component in a piping or tubing system to an appliance downstream or a natural gas meter or propane service valve up to an appliance control valve. They may also reactivate a previously installed or converted appliance, clean and lubricate an appliance, or clean, remove or replace a vent connector, venting or a draft control device.