

PROGRAMS AVAILABLE

DIPLOMA PROGRAMS

- Accounting and Payroll Administration
- Business Administration
- Office Administration
- Medical Office Administration
- Mechanical Engineering Design Technology
- Civil Engineering Design Technology
- Software Development
- Software Quality Assurance and Testing
- Web Development

POST-GRADUATE DIPLOMA PROGRAMS

- Electrical Power Distribution Technology
- Environmental Control
- Environmentally Sustainable Buildings
- Instrumentation and Controls Technologist
- Mechanical Technologist - HVAC Theory

CERTIFICATE PROGRAMS & COURSES*

- Quickbooks
- Simply Accounting
- AutoCAD
- MS Office

PROFESSIONAL TRADE CERTIFICATION EXAM PREPARATION*

- Industrial Electrician Pre-Exam Preparation (442)
- Construction and Maintenance Electrician Pre-Exam Preparation (309)

PROFESSIONAL ENGINEERING LICENSE (P.ENG.) PROGRAM*

* Does not require approval under the Private Career Colleges Act

Why Epic College?

EPIC College of Technology is committed to quality education and putting the student's needs first. Our goal is your success. All of our programs are designed with the student's success in mind.

As such, we are the first college (private or public) to earn the coveted ISO 29990 Certification.

Unlike some other programs, our courses are all 100% instructor led rather than requiring students to sit in front of a computer and follow a CD or internet self-study course.

All of our diploma programs are job-oriented and the curriculum was developed by real world professionals who know what is in demand and make sure the programs include it.

Our classes are conveniently scheduled to accommodate your busy life and allow for either part-time or full time employment (depending on the program) so you can continue to earn while you learn.

www.epiccollege.ca



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Business • Health • Technology



Mechanical
Technologist
- HVAC Theory
DIPLOMA PROGRAM

Bringing
dreams
within reach

www.epiccollege.ca

MECHANICAL TECHNOLOGIST - HVAC THEORY DIPLOMA

The “Mechanical Technologist - HVAC Theory” Diploma is a **comprehensive professional training program** in heating, ventilation, air conditioning and refrigeration.

The curriculum provides participants with in-depth technical **understanding of principles and applications for design, operation, inspection, maintenance and retrofit** of HVAC systems in order to ensure acceptable indoor air quality standards while meeting energy conservation, green building and other requirements.

The program **focuses on latest technologies and the best industry practices** in environmentally responsible and energyefficient multi-unit residential, commercial, industrial and institutional HVAC-R systems operation.



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Bringing dreams within reach

DIPLOMA PROGRAM HIGHLIGHTS

- HVAC – I: Fundamental Concepts and Systems
- HVAC – II: Equipment, Control, and Operation
- Maintenance Management
- Ontario Building Code
- Engineering Project Management
- Canadian Industrial Practices and Workplace Culture

CAREER OPPORTUNITIES

Graduates of this program are well suited for positions such as;

- Project engineer/manager;
- Mechanical or HVAC engineer or designer;
- Applications engineer;
- Systems design-- engineer;
- HVAC controls technician;
- Energy professional;
- Plant engineer;
- Technical sales representative;
- Customer service representative as well as many others in industry sectors such as;
- Manufacturing, consulting engineers, installers and contractors.

DIPLOMA FEATURES

- Become familiar with practices in heating, ventilation, air conditioning and refrigeration;
- Understand principles of cooling and ventilation, sources of heat, energy supplies, heat loss and gain, air movement, conventional installation methods, space heaters, introduction to electric heating, safety issues etc.;
- Become familiar with the best practices of operation, inspection, maintenance and repair of HVAC systems.
- Perform analysis, design, operation, inspection and maintenance of HVAC systems.



UPON COMPLETION OF THIS PROGRAM PARTICIPANTS WILL BE ABLE TO:

- Calculate HVAC system cooling and heating loads, develop psychrometric tables and charts;
- Select components and design layout of HVAC systems while giving considerations to energy conservation and green building design principles;
- Choose temperature controls for HVAC systems including pneumatic, electric, electronic, and computer based software;
- Investigate and resolve indoor air quality issues in the built environment, examine the typical types of health complaints and the role of ventilation systems;
- Perform energy audits, estimate energy use for existing equipment and assess conservation options;
- Pick out measurement devices and calculate potential energy savings;
- Supervise operation and maintenance of HVAC systems and components including chillers, cooling towers, DX units, boilers, fans, pumps, and controls.
- Oversee troubleshooting of system malfunctions, setup and implement maintenance programs that enhance performance and reliability of HVAC systems;
- Exercise good work habits and communication practices in relation with HVAC industry workplace;
- Perform research and access industry technical information for the HVAC technology;

ADMISSION REQUIREMENTS*

- OSSD or equivalent or mature student status (with acceptable CAAT scores)
- ESL 7 or higher (if English is spoken as a second language)

* An admission interview will be conducted to ensure you meet the necessary entry requirements as well as to ensure you have the necessary aptitude, motivation and interest in the diploma program.

JOB PLACEMENT ASSISTANCE

In addition to providing you with the necessary skills and knowledge to succeed in Mechanical Technologist - HVAC career, EPIC College of Technology also provides you with the coaching, job searching skills, resume preparation and job placement assistance to help you land the job you want to put your newly learned skills to work.

FINANCIAL ASSISTANCE & FUNDING OPTIONS

Students in the Mechanical Technologist - HVAC Diploma Program may be eligible for several different sources of funding and financial assistance programs including: WSIB, EI, Second Career, bursaries and interest free installment plans administered by the college, bank loans, RRSF, RESP and employer sponsored educational programs.

Call us at 905.203.2500 for more options.