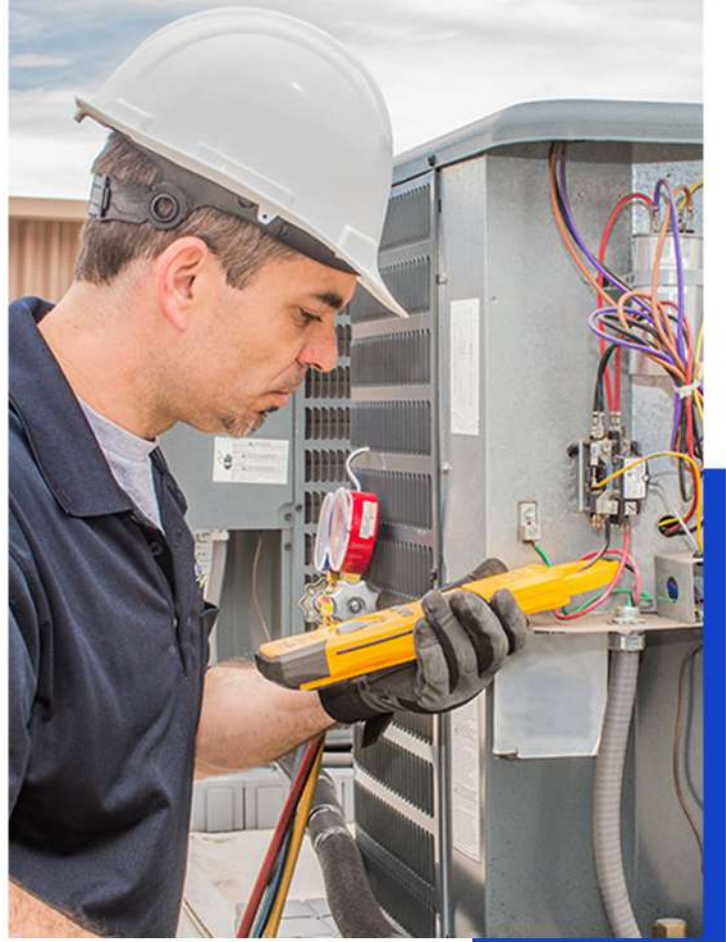


# MECHANICAL TECHNOLOGIST HVAC THEORY DIPLOMA



The Mechanical Technologist – HVAC Theory Diploma Program is a comprehensive professional training program in heating, ventilation, air conditioning and refrigeration. The curriculum provides students 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 the latest technologies and the best industry practices in environmentally responsible and energy-efficient multi-unit residential, commercial, industrial and institutional HVAC-R systems operation.

## DURATION

12 Weeks (PG Diploma, Full Time)

26 Weeks (PG Diploma, Part Time)

## 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

## ADMISSION REQUIREMENTS

- ✦ Ontario Secondary School Diploma (OSSD) or equivalent
- ✦ Engineering Diploma or Degree
- ✦ Minimum 3 years experience
- ✦ Ontario Equivalency of foreign credentials (WES/ICAS, etc.)

## CAREER OPPORTUNITIES

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

- ✦ Project engineer/manager (HVAC)
- ✦ 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





## UPON COMPLETION OF THIS COURSE STUDENTS WILL BE ABLE TO

- ✦ Oversee installation, operation, troubleshooting and servicing of HVAC systems
- ✦ 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
- ✦ Select 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
- ✦ Select measurement devices and calculate potential energy savings
- ✦ Oversee operation and maintenance of HVAC systems and components including chillers, cooling towers, DX units, boilers, fans, pumps, and controls
- ✦ Oversee troubleshooting of system malfunctions, set-up 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

## JOB PLACEMENT ASSISTANCE

In addition to providing students with the necessary skills and knowledge to succeed in Mechanical Technologist-HVAC Theory career, Epic College of Technology also provides training, job searching skills, resume preparation and job placement assistance.

## FINANCIAL ASSISTANCE AND FUNDING OPTIONS

Students in the Mechanical Technologist HVAC Theory 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, RASP, RESP and employer sponsored educational programs.



*Call us at 905-203-2500 or  
647-482-3742 for more information  
about admission and program*

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