

# ELECTRICAL POWER DISTRIBUTION DIPLOMA PROGRAM

The Electrical Power Distribution Technology program provides a comprehensive overview of the power distribution systems that are used in industrial, commercial, institutional and industrial buildings. This program covers aspects of the distribution system, protection, distribution automation and independent power generation. It also focuses on switchgear, power cables, transformers, power factor correction, grounding, lightning protection and network systems.

The program enhances students' knowledge and skills required for employment in the electrical power distribution sector. The participants will be introduced to the design methods in compliance with the IEEE standards and Canadian Electrical Code and will learn how to perform design calculations and system analysis by using industry standard software.

The students will also be engaged in the project work which will involve all aspects of the electrical power distribution system design process. Students will configure single line diagrams, perform design calculations, prepare equipment selection datasheets, measure the major electrical equipment and select suitable devices such as transformers, circuit breakers, switchboards, motor control centers from Canadian and International suppliers

The program includes in-depth classroom lectures, demonstrations and case studies. All courses in the program are taught by practicing professionals, ensuring that the program content is both practical and current.

## ■ ADMISSION REQUIREMENTS

- Post Secondary Certificate or Diploma
- Minimum 3 years experience for Engineers or 5 years of experience for Technologists
- Ontario Equivalency of foreign credentials (WES/ICAS, etc.)

## ■ DURATION

- One year (PG Diploma)

## ■ DIPLOMA PROGRAM HIGHLIGHTS

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

- Electrical Power Distribution I
- Electrical Power Distribution II
- Canadian Electrical Code
- Engineering CAD
- Engineering Project Management
- Maintenance Management
- Canadian Industrial Practices and Workplace Culture



## CAREER OPPORTUNITIES

Graduates of this program are ready to start their careers in such companies as:

- Power Distribution companies
- Consulting engineering companies
- Large contracting companies
- Inspection agencies
- Large equipment manufacturers
- Utility companies

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

- Use AutoCAD Electrical software to produce single line diagrams, power distribution layouts, lighting design, instrumentation, heat tracing, grounding, cable tray and other layouts
- Prepare specifications for design, installation, operation, protection and maintenance of electrical distribution systems
- Prepare electrical datasheets, technical specifications and technical evaluations
- Perform calculations, determine required sizes, ampacities and ratings of electrical components of power distribution systems in accordance with the Canadian Electrical Code
- Set up safe operational settings of power distribution systems and supervise their operation, maintenance and ad-hoc servicing
- Provide project oversight and authorize on-site changes in order to resolve emerging issues, maintain as built drawings and update when modifications are completed
- Maintain critical power distribution system information, drawings, files, spreadsheets and records



## 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 Electrical Power Distribution Technology 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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