

# Course Modules

- Computer Applications for Engineering
- Business Communication
- Physics
- Mathematics
- Electronics and Digital Circuits
- Fundamentals of Fluid Mechanics, Pneumatics and Vacuum Systems
- Electrical Circuit Analysis and Machinery
- General Work Shop
- PLC and HMI (Allen Bradley)
- PLC and Servo Controllers (Allen Bradley)
- PLC and Motion Control (Omron)
- PLC (Siemens)
- Robotics
- Advanced Control Systems
- AutoCAD Electrical
- Introduction to the Canadian Electrical Code
- Engineering Project
- Career Development for Engineers

## Career Opportunities

Electrical Engineering Technician or Technologist, Electronics Design Technologist, Electronics Engineering Technician or Technologist, Production Support Technician (Electronics Manufacturing), PLC Panel Assemblers, Robotics Control and Support Technicians, Automotive Technicians



## North American College

730 Yonge Street, Suite 207,  
Toronto, ON, M4Y 2B7  
(One Block South of Bloor)

# Call: 416-960-6024

Visit us at [www.nacollege.com](http://www.nacollege.com)  
email: [info@naccollege.com](mailto:info@naccollege.com)

Convenient from East, West, North and South. At the intersection of Yonge and Bloor Subways

NAC information offices also located at

Scarborough Office  
2100 Ellesmere Ave #101, Scarborough, M1H 3B7,  
Phone: 416-960-6024

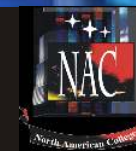
Lawrence Square Office  
700 Lawrence Square W. (Lawrence Square) #428,  
Toronto, M6A 3B4, Phone: 416-960-6024

Laid off, underemployed, EI active, EI reach back and Non EI-eligible recipients, maternity or parental benefit, SA and ODSP recipients may be eligible for funding for training.

If you want a great career in  
Electrical and Electronic Engineering  
Design Technology  
this is the course for you

## Diploma in Electrical and Electronic Engineering Design and Technology

Financial Assistance may be  
available to those who qualify



North American College  
Information Technology

Registered as a private career college  
under the Private Career Colleges Act 2005

# Objectives and Description of the Program

# Programs Offered at NAC

Graduates of Electrical and Electronic Engineering Design Technology programs have demonstrated achievement of vocational learning outcomes which relate to engineering in general and electrical engineering in particular that are necessary to perform their roles according to recognized electrical engineering practices. The program provides graduates with an exposure to a range of electrical engineering functions, such as designing or adapting, analyzing, troubleshooting commissioning, installing and repairing a variety of electrical circuits, equipment, and systems, under the supervision of a qualified person. Graduates have also had exposure to quality control and assurance programs and have applied communication, documentation, computer applications, information technology, and teamwork skills to support the electrical engineering activities of an organization.

Graduates of the Electrical and Electronic Engineering Design Technology diploma program are trained to:

- designing or adapting a variety of electrical circuits, equipment, and systems under supervision
- analyzing, troubleshooting, commissioning, installing and repairing a variety of electrical circuits, equipment, and systems under supervision
- implementing quality control and assurance programs
- apply communication, documentation, computer applications, information technology, and teamwork skills to support the electrical engineering activities of an organization

The graduates work in a wide range of settings in both large and small organizations and in a variety of sectors in the electrical engineering industry. Their activities could have a very broad range: power distribution and utilization; electrical power generation, transmission, and protection; industrial

telecommunications; electrical maintenance and installation; and automation systems.

A special feature of this program is the “capstone” Engineering Technology Project course taken at the end of the third term which includes such topics as: project management concepts; needs identification techniques; proposed solutions preparation; the project life cycle; the project manager's responsibilities and skills; the effective project team; types of project organizations; project communications and documentation; project planning, scheduling, and control; resource considerations; and cost planning and performance evaluation. In this course, students have the opportunity to replicate an actual civil electrical project under the direction of NAC's instructors who are also practicing professional engineers.

Another feature is the Career Development course also taken in the final term which focuses on career planning and effective job search strategies, the techniques of researching companies, the basics of interviewing including a review of typical interview questions and role-playing, with all of this being presented and directed by senior practicing engineers who have direct and current experience with interviewing and hiring engineering technicians.

## Admission Requirements

Applicants are to have an Ontario Secondary School Diploma or equivalent, although provision can be made for those who do not meet this requirement, are 18 years of age or older, and pass a qualifying test. Advance standing for up to 40% of the program is possible depending upon an applicant's previous education and/or work experience.

The amount of credit to be awarded is determined on an individual basis after an interview with the Program Director, a review of the applicant's history, and, if applicable, the applicant's results on a challenge examination.

## Diploma Programs

Approved as a vocational program under Private Career Colleges Act 2005

Business	Health Sciences
Accounting and Finance Computerized Accounting Business Administration Administrative Assistant Legal Administrative Assistant	Electrolysis Esthetics Esthetics/New Technologies Esthetics/Electrolysis Pharmacy Assistant Medical Office Assistant Personal Support Worker Early Childcare Assistant
Engineering	
Mechanical Engineering Design & Technology Civil Engineering Design & Technology Electrical and Electronic Engineering Design and Technology Computer Network Engineering Design and Technology	

## Professional Development & Skill Upgrading Software

Does not require approval under the Private Career College Act 2005

Software Training for Mechanical Engineering	Software Training for Civil Engineering
AutoCAD Autodesk Inventor CATIA Geometric Dimensioning and Tolerancing (GD&T) and Finite Element Method (FEM) MicroStation SolidWorks Unigraphics	AutoCAD Building Science & Home Inspection Software Construction Estimating Geo Environment Software MicroStation Primavera (P3) Project Management Staad Pro Timberline Software
Software Training for PLC & Robotics	Bank Teller Program
Advanced Control Systems AutoCAD Electrical PLC and HMI (Allen Bradley) PLC and Servo Controllers (Allen Bradley) PLC and Motion Control (Omron) PLC (Siemens) Robotics (ABB)	Canadian Banking System Customer Analysis-Knowing your customers Deposit Products Loan Products Cheques / Travelers Cheques Identification Deposits and Withdrawals Money Orders Credit Card Cash Advance

**Giving you the knowledge and skills to compete in today's highly demanding technology occupations**