



CIVIL ENGINEERING DESIGN TECHNOLOGY

The Civil Engineering Design Technology Diploma Program provides knowledge and skills required to support design and development of Civil Engineering systems, parts configurations and products from their concept stage through all phases of engineering, costing, construction, commissioning, modification, maintenance and decommissioning.

Students will learn principles of Civil Engineering design, engineering analysis, computer-aided design, modeling, blueprint reading, geometrical dimensioning, design and construction safety and will be able to communicate complex civil engineering concepts and information through text, drawings, 3D models and related documentation. Students will develop strong analytical and problem-solving skills needed for successful employment in Civil Engineering, building, mining and

other related industry sectors. Graduates will also prepare their personal portfolio of technical ideas developed into drawings, 3D models and actual executable designs. Such portfolio will help graduates to demonstrate to prospective employers their acquired knowledge and skills.

ADMISSION REQUIREMENTS

- Ontario Secondary School Diploma (OSSD) or equivalent or mature student status
- ESL 7 or higher (if English is not a second language)
- IELTS or equivalent (for International Students only)
- An admission interview may be required to ensure you meet the necessary entry requirements

DURATION

- 29 weeks/one year

DIPLOMA PROGRAM HIGHLIGHTS

- Microsoft Word
- Microsoft Excel
- Mathematics
- Civil Engineering Design Principles
- Structural Systems, Materials Technology and Specifications
- Drawing Fundamentals and Blueprint Reading
- Structural Mechanics Fundamentals
- Technical Report Writing and Presentation Skills
- Ontario Building Code
- Microstation
- AutoCAD Basic
- AutoCAD Advanced
- CAD Management
- Hands-on Project

CAREER OPPORTUNITIES

Graduates from this Diploma Program can find Rewarding Careers as:

- Civil Designer/Drafter
- Civil Engineering Design Technologist
- Civil Engineering CAD Technician
- Design and Drafting Technologist
- CAD Drafter/Designer

CIVIL DESIGNERS PERFORM NUMEROUS DUTIES INCLUDING:

- Prepare, read and interpret engineering design drawings, specifications and documentation.
- Identify, formulate, and present creative civil design concepts.
- Apply principles of civil design in creating 2D/3D computer aided graphics.
- Solve practical design problems within the broad range of civil design projects.
- Select appropriate components of Civil Engineering systems based on specified selection criteria.
- Review engineering design solutions and recommend enhancements.
- Assemble and manage comprehensive portfolios of design information related to projects.
- Prepare supplementary design documentation, notes and specifications.
- Demonstrate professionalism, informed judgment, ethical behavior and critical thinking skills.
- Communicate effectively with appreciation of collaboration challenges in multicultural teams.

JOB PLACEMENT ASSISTANCE

In addition to providing students with the necessary skills and knowledge to succeed in Civil Engineering Design Technology 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 Civil Engineering Design Technology 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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