

Mechanical Engineering Design Technology

Mechanical Engineering Design Technology is an essential part of modern automotive, aerospace, robotics, energy and manufacturing, etc. industries. The Mechanical Engineering Design Diploma Program at Epic College of Technology provides knowledge and skills required for the research, design and development of mechanical systems, parts and products from their concept stage through all phases of engineering, fabrication, installation, commissioning, operation, modification, and maintenance. This Diploma Program also covers computer aided design such as AutoCAD, SolidWorks, and Autodesk Inventor and Pro/E (Creo) as well as getting hands-on training and work experience.

Engineering practices are worked right into the curriculum. Therefore, students can learn engineering design principles and fundamentals by using the latest software. Students will learn the principles of mechanical design, engineering analysis, computer aided design, prototyping, blueprint reading, geometrical dimensioning and tolerancing and will gain the ability to communicate complex mechanical engineering concepts through drawings, 3D models and related documentation.

Students will develop strong analytical and problem solving skills that are required for successful employment in manufacturing, processing, metal fabrication, automotive, aerospace, oil and gas, energy, environmental and many other industrial sectors.

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

- One Year

DIPLOMA PROGRAM HIGHLIGHTS

- Calculus Fundamentals
- Finite Element Analysis
- GD&T and Blueprint Reading
- Engineering Project Management
- Technical Report Writing and
- Presentation Skills
- AutoCAD
- SolidWorks
- CATIA
- Microstation
- Pro-Engineer
- Auto Desk Inventor
- Hands on Project
- Canadian Industrial Practices and Workplace Culture

CAREER OPPORTUNITIES

Graduates of this program can start their career in positions such as:

- Mechanical Engineer Designer/Drafter
- Mechanical Design Technician/Technologist
- CAD Drafter/Designer/Operator
- Mechanical Layout Designer
- Mechanical Piping Designer/Drafter
- Automotive Component Designer
- Mechanical Design Technologist
- Mechanical (Machine) Designer
- Inspection Agent of Mechanics
- Mechanics/Equipment Designer
- Power Distribution Analyst/Technician

MECHANICAL DESIGNERS PERFORM NUMEROUS DUTIES INCLUDING:

- Prepare, read and interpret engineering design drawings, specifications and documentation
- Identify, formulate, and present creative mechanical design concepts
- Apply principles of mechanical design in creating 2D/3D Computer aided graphics
- Solve practical design problems within the broad range of mechanical design projects
- Select appropriate components of mechanical systems based on the specified selection criteria
- Review engineering design solutions and recommend improvements
- Prepare supplementary design documentation, notes, and specifications
- Exhibit 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 a Mechanical 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 Mechanical Engineering Design the 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 the program.

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