Mechanical Engineering Program Offers Real Life Experience by Jason White

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If you are looking to attend a Mechanical Engineering program that offers you the chance at real-life experiences balanced with theory and lab practice, look no further than the Mechanical Engineering Technology â€“ Industrial (PTY) offering at Centennial College. This offering is designed for those interested in a career in the manufacture and production of mechanical equipment.

In order to apply, all you require is the completion of at least an Ontario Secondary School Diploma (OSSD) or equivalent, or mature student status (19 years or older). In addition, you must possess English Grade 12 C or U, or equivalent, or skills assessment; and Math Grade 11 M or U or Grade 12 C or U, or equivalent, or skills assessment.

Once you are accepted, you will attend mechanical engineering courses that prepare you for positions such as s supervisor (which offers additional opportunities), junior engineer, assistant to professional engineers, lab technician, quality control, CAD operator, technical sales and marketing, production control, and product design and development. But how does Centennial College's Mechanical Engineering program get you from novice to confident professional?

The campus at which Mechanical Engineering program students study houses a new mechanical engineering lab that includes: Thermodynamic Fluid Power testing modules, and Tensile, Hardness and Impact Testers. This is important as students attend Mechanical Engineering courses that have a 60-40 balance of theory and practice. Through this approach, students gain a foundation in basic engineering skills and science before moving onto more specific and advanced topics relating to modern manufacturing and production processes. The project-driven angle of the mechanical engineering courses allows learners to experience machine shop operation, tool design, plus computer numerical control programming, designing, as well as building and testing an original piece of equipment. In addition, they learn essential computer-assisted drafting and manufacturing (CAD/ CAM), as well as industry-current software instruction in AutoCAD, Inventor and Mastercam.

Specific mechanical engineering courses featured in this offering include: Machine Shop, Physics, Applied Electricity, Statistics, Differential Calculus and Analytic Geometry, Properties of Materials, Fluid Mechanics, Tool Design, Quality Assurance and more.

In addition to in-class learning, students of the Mechanical Engineering program take on two individual projects and attend co-op in the field. First, the project, which simulates actual workplace assignments, gives students practical experience in designing, building and testing an original piece of equipment.

Secondly, academically qualified students enhance their education by working three terms as paid employees in the field. This experience not only allows them to put classroom learning into practice, but also provides valuable networking opportunities for future careers. Please note that a minimum C grade required in COMM-170/171, minimum 2.5 GPA and minimum 80 percent of year 1 and 2 courses are required for COOP-221.

Upon graduation, mechanical engineering program students are prepared for jobs in the manufacture and production of mechanical equipment. Their duties may include: developing quality control systems, assisting in plant expansions and layouts, conducting time and motion studies, planning and scheduling new facilities and preparing job safety programs and manuals.

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In this article, Klaudia writes about the benefits of attending Centennial College's a mechanical engineering courses, which include Machine Shop, Physics, Applied Electricity and more.

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