Mechanical Engineering Technology

Program Learning Outcomes

Learning outcomes represent culminating demonstrations of learning and achievement. In addition, learning outcomes are interrelated and cannot be viewed in isolation of one another. As such, they should be viewed as a comprehensive whole. They describe performances that demonstrate that significant integrated learning by graduates of the program has been achieved.

The graduate has reliably demonstrated the ability to

1. Monitor compliance with current legislation, standards, regulations and guidelines.
2. Plan, co-ordinate, implement and evaluate quality control and quality assurance procedures to meet organizational standards and requirements.
3. Monitor and encourage compliance with current health and safety legislation, as well as organizational practices and procedures.
4. Develop and apply sustainability best practices in workplaces.
5. Use current and emerging technologies to implement mechanical engineering projects.
6. Analyze and solve complex mechanical problems by applying mathematics and fundamentals of mechanical engineering.
7. Prepare, analyze, evaluate and modify mechanical engineering drawings and other related technical documents.
8. Design and analyze mechanical components, processes and systems by applying fundamentals of mechanical engineering.
9. Design, manufacture and maintain mechanical components according to required specifications.
10. Establish and verify the specifications of materials, processes and operations for the design and production of mechanical components.
11. Plan, implement and evaluate projects by applying project management principles.
12. Develop strategies for ongoing personal and professional development to enhance work performance.
13. Apply business principles to design and engineering practices.