

Civil Engineering Technician

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. Develop and use strategies to enhance professional growth and ongoing learning in the civil engineering field.
2. Comply with workplace health and safety practices and procedures in accordance with current legislation and regulations.
3. Complete duties and assist in monitoring that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field.
4. Carry out sustainable practices* in accordance with contract documents, industry standards and environmental legislative requirements.
5. Collaborate with the project team and communicate effectively with project stakeholders to support civil engineering projects.
6. Collect, process and interpret technical data to produce written and graphical project-related documents.
7. Use industry-specific electronic and digital technologies to support civil engineering projects.
8. Participate in the design and modeling phase of civil engineering projects by applying engineering concepts, basic technical mathematics and principles of science to the review and production of project plans.
9. Assist in the scheduling, cost estimation and monitoring of the progression of civil engineering projects by applying principles of construction project management.
10. Perform quality control testing and the monitoring of equipment, materials and methods involved in the implementation and completion of civil engineering projects.
11. Apply teamwork, leadership and interpersonal skills when working individually or within multidisciplinary teams to complete civil engineering projects.