



**RUSS EDWARDS  
SCHOOL**  
Agriculture & Environment

Eligible for  
**FINANCIAL AID  
& AWARDS**

# CIVIL TECHNICIAN

**1-Year** Certificate

Provide technical support to scientists, engineers and other professionals, or work independently. You'll collaborate with multidisciplinary teams to ensure civil engineering projects meet goals while adhering to safety, sustainability and legal standards.

## PROGRAM LEARNING OUTCOMES

- ▶ 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.
- ▶ Carry out sustainable practices in accordance with contract documents, industry standards and environmental legislative requirements.
- ▶ Collaborate with the project team and communicate effectively with project stakeholders to support projects.
- ▶ Collect, process and interpret technical data to produce written and graphical project-related documents.
- ▶ Use industry-specific electronic and digital technologies to support projects, such as surveying or AutoCAD.
- ▶ Assist in the scheduling, cost estimation and monitoring of the progression of civil engineering projects by applying principles of construction project management.
- ▶ Perform quality control testing and the monitoring of equipment, materials and methods involved in the implementation and completion of projects.
- ▶ Apply teamwork, leadership and interpersonal skills when working individually or within multidisciplinary teams.
- ▶ Develop and use strategies to enhance professional growth and ongoing learning in the civil engineering field. Comply with workplace health and safety practices and procedures in accordance with current legislation and regulations.
- ▶ 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.

## You might be a good fit for this program if you would enjoy:

- ▶ A one-year entry level program in an engineering related field.
- ▶ Working in areas such as construction design and supervision, highways and transportation.
- ▶ Honing your visualization skills, applying mathematical solutions, and working with computers.
- ▶ Planning, decision making and coordination of infrastructure projects.



**Campus/Delivery Options**  
Victoria Avenue East campus



**Available Intakes**  
September



**Work Integrated Learning**  
16 weeks/480 hours

## EXPECTATIONS

### Program & Industry

- ▶ Work in a variety of environments, including laboratories, offices and industrial areas; working conditions may include a combination of indoor and outdoor work.
- ▶ Keep up with technological advances.
- ▶ Prepare for environmental conditions and potential hazards from heavy equipment and construction materials when performing field work.
- ▶ A valid driver's license and access to a vehicle is strongly recommended given the need to travel for co-op placement.

## CAREER OPPORTUNITIES

- ▶ Engineering and architectural firms
- ▶ Manufacturers construction and development companies
- ▶ Inspection testing agencies
- ▶ Material suppliers
- ▶ Departments within government

## ADMISSION REQUIREMENTS

- ▶ A complete Manitoba Grade 12 or equivalent
- ▶ English 40G/40S or equivalent
- ▶ Pre-Calculus or Applied Mathematics 40S or equivalent with a minimum mark of 65%

# NEXT STEPS

Confidence in the career path you choose to embark on is key and selecting the right program for you is the first step. At Assiniboine, we offer an opportunity to explore and experience a program before applying. Choose to:

### SPEND A DAY WITH US

Our Spend a Day program runs from November to March for most programs. When you spend a day at Assiniboine, we partner you with a current student in the program of your choice so you have the opportunity to:

- ▶ Participate in classroom activities
- ▶ Experience college life
- ▶ Explore all of our helpful services for students
- ▶ Meet current college students and instructors
- ▶ Enjoy a free lunch on us!

[assiniboine.net/spendaday](http://assiniboine.net/spendaday)

### ATTEND AN INFO SESSION

Join our free live online info sessions to get the inside scoop on your program of interest and life at Assiniboine. Register in advance and log in from home to learn about Assiniboine.

[assiniboine.net/infosessions](http://assiniboine.net/infosessions)

Ready to Start?  
**APPLY NOW!**



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