



**Assiniboine
College**

Eligible for
**Financial
Aid &
Awards**

Power Engineering

2-Year Diploma

Keep industry running smoothly with the essential skills for a challenging career in power engineering. If you want a career and not just a job, then this is the program for you.

PROGRAM LEARNING OUTCOMES

- ▶ Complete work in compliance with provincial and/or national codes, applicable laws, standards and ethical industry practices.
- ▶ Operate automated or computerized control systems, stationary engines and auxiliary equipment such as reactors, boilers, turbines, generators, pumps, compressors, pollution control devices and other equipment to generate electrical power and provide light, heat, ventilation and refrigeration for buildings, industrial plants and other work sites.
- ▶ Start up and shut down power plant equipment, control switching operations, regulate water levels and communicate with systems operators to regulate and coordinate transmission loads, frequency and line voltages.
- ▶ Monitor and inspect plant equipment, computer terminals, switches, valves, gauges, alarms, meters and other instruments to measure temperature, pressure and fuel flow to detect leaks or other equipment malfunctions and to ensure plant equipment is operating at maximum efficiency.

For a full list of program learning outcomes, visit assiniboine.net/powerengineering.

A CAREER IN THIS FIELD IS A GOOD FIT FOR YOU IF YOU WOULD ENJOY...

- ▶ An interest and strong technical aptitude for understanding complex energy production systems and how they work.
- ▶ Be meticulous and pay close attention to detail to ensure that power plants and energy production systems are operating efficiently and safely.
- ▶ Analyze data, diagnose problems, and develop effective solutions quickly and efficiently.
- ▶ Prioritize safety and follow appropriate safety procedures to prevent accidents and injuries.
- ▶ Working independently or in small teams, so power engineers must be self-motivated and able to stay on task without direct supervision.
- ▶ A valid driver's license and access to a vehicle is strongly recommended given the potential need to travel for practicum placement.



Campus/Delivery Options

North Hill campus



Available Intakes

September



Industry Work Experience

YR 1 | 2 days/week for 24 weeks
YR 2 | 2 days/week for 24 weeks

EXPECTATIONS

Program and Industry

- ▶ Be reliable, punctual, and regularly attend.
- ▶ Move around and work within the learning environment, negotiating different areas including stairs and ladders, confined spaces, heights, uneven terrain and scaffolds.
- ▶ Complete responsibilities requiring standing, bending, and climbing.
- ▶ Have the strength, dexterity, balance and stamina required to work in or on equipment.
- ▶ Work in noisy, dusty and/or fumes areas with appropriate personal protective equipment.
- ▶ Interpret technical documents, drawings, specifications, codes, regulations, bylaws and standards.
- ▶ Communicate effectively with others including suppliers, co-workers, other tradespeople, safety and building inspectors, manufacturer representatives, and customers.
- ▶ Work in industry-specific shifts, schedules, and conditions.
- ▶ Listen to directions and act on them accordingly.
- ▶ Demonstrate safety-conscious attitudes and work practices.

CAREER OPPORTUNITIES

Graduates find employment opportunities in various industries, including chemical manufacturing, food processing, electrical generation, manufacturing plants and building complexes such as hospitals and schools.

ADMISSION REQUIREMENTS

- ▶ A complete Manitoba Grade 12 or equivalent
 - English 40G/40S or equivalent
 - Pre-Calculus or Applied Mathematics 40S or equivalent
 - Physics 30S or Chemistry 30S or equivalent

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

ATTEND AN ONLINE INFO SESSION

Our free, live online information sessions give you the inside scoop on the program you're interested in and life at Assiniboine. Register in advance and from the comfort of your own home, log in to learn about Assiniboine.

assiniboine.net/infosessions

**Ready to start?
Apply Now!**

