



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.
 - ▶ Analyze and record instrument readings and equipment malfunctions.
 - ▶ Troubleshoot and perform corrective action and minor repairs to prevent equipment or system failure.
- 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 OR HAVE...

- ▶ An interest and strong technical aptitude for understanding complex energy production systems and building operation systems.
- ▶ Being meticulous and paying close attention to detail to ensure that power plants and energy production systems are operating efficiently and safely.
- ▶ Working independently or in small teams.
- ▶ Analyzing data, diagnosing problems, and developing effective solutions quickly and efficiently.
- ▶ Prioritizing safety and following appropriate safety procedures to prevent accidents and injuries.
- ▶ Continually learning and adapting to changing conditions and technological advancements in the field.



Campus/Delivery Options
North Hill campus



Available Intakes
September



Work Integrated Learning
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

- ▶ Water treatment plants
- ▶ Hospitals
- ▶ Government agencies
- ▶ School divisions
- ▶ Production plants
- ▶ Building complexes

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 our college, 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 what Assiniboine has to offer.

assiniboine.net/infosessions



Ready to start?
Apply Now!



assiniboine.net/powerengineering