# GNEERNC

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.

# Why choose a career in Power Engineering?

## Ready to go

Power engineers are in high demand in Manitoba. If you are self-motivated, responsible and enjoy the technical challenge, this program will prepare you to take the standardized power engineering examination so you can start your career as a 4th Class Power Engineer.

Full steam ahead

As a power engineer, you will be responsible for efficiency, operation and safety for industrial equipment, such as steam engines, air compressors, boilers and turbines. You will learn how to operate and maintain these types of equipment, as well as the mathematics, mechanics, combustion, thermodynamics and instrumentation you will need in this career.

# Dial up hands-on learning

With this eight-month certificate, you will learn how to operate power plants on modern equipment simulating a 400 MW, pulverized coal-fired steam-generating unit. Hands-on learning methods at our North Hill campus will give you practical experience.

SSINIBOINE

8-MONTH CERTIFICATE

# A bright future

Your career could see you working with heating and air conditioning, refrigeration or fire systems. You may work in buildings or industrial complexes like hospitals, government agencies, school divisions, regional health authorities and manufacturing plants-anywhere that maintains complex industrial systems.

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FULL-TIME, UN-CAMPUS TIMELINE:				
SEPTEMBER Fall term begins	JANUARY Winter term begins	MAY Work placement	JUNE Graduation	
		Program delivery options:	North Hill Campus	

### CAREER OPPORTUNITIES

Graduates find employment opportunities in hospitals, government agencies, school divisions, regional health authorities, and numerous other plants and building complexes.

### ADMISSION REQUIREMENTS

- A complete Manitoba Grade 12 or equivalent
- English 40G/40S or equivalent
- Consumer/Essential Mathematics 40S or equivalent

English is the language of instruction at Assiniboine. All applicants educated outside of Canada or in a country not on the test exempt list are expected to meet the English language proficiency requirement. See **assiniboine.net/elp** for more information.

### UNIQUE LEARNING EXPERIENCES

- Emphasis on practical, applied learning
- Industry-based practicum
- Hands-on learning in industry during the majority of the program

### **GRADUATION REQUIREMENTS**

To graduate with a Power Engineering certificate, students must successfully complete 60 academic credits and 6 practical credits.

The minimum passing grade for each course is indicated on the course outline.

### CONNECTIONS

Graduates may write the Standardized Power Engineering Examinations. Candidates who pass these examinations receive a Standardized Certificate, which makes them eligible to work as power engineers in all Canadian provinces and territories except Quebec.

Assiniboine has a number of agreements with other colleges, universities and professional organizations, making it possible for students to apply credit taken at Assiniboine to programs at other institutions. For up-to-date information on agreements, visit **assiniboine.net/registrar** or the program page.

### PROGRAM FEES (DOMESTIC ONLY)

Tuition, fees and Students' Association fees total approximately **\$4,790**.

Estimated cost for books and supplies is \$2,640.

All fees are estimated and subject to change without notice.

### **COURSES 2020-21**

NUMBER	COURSE TITLE	CREDITS
DRFT-0005	Blueprint Reading (PE)	3
ENGR-0030	Boilers and Materials	6
ENGR-0046	Combustion and Maintenance 1	3
ENGR-0047	Combustion and Maintenance 2	3
COMM-0045	Communications	3
ELEC-0025	Electrical (PE)	6
SCIE-0036	Engineering Chemistry	3
ENGR-0018	Engines (PE)	3
ENGR-0031	Heating Boilers and Systems	3
ENGR-0048	Instrumentation and Controls 1	3
ENGR-0049	Instrumentation and Controls 2	3
MATH-0050	Mathematics (PE)	3
MECH-0083	Mechanics (PE)	3
PRAC-0193	Practicum – POWER	6
ENGR-0019	Refrigeration (PE)	6
WRKP-0016	Safety and Environment	6
ENGR-0050	Thermal and HVAC Studies 1	1.5
ENGR-0051	Thermal and HVAC Studies 2	1.5

Note: Timelines, applicable industry experience, and teaching methodology will depend on program delivery choice; program information sheets subject to change without notice. Visit **assiniboine.net** for the most up-to-date information.

### NEXT STEPS

Apply now! Visit **assiniboine.net/applynow**. For more information on this program, visit **assiniboine.net/powerengineering**.



### assiniboine.net/powerengineering