

About Power Engineering

Power Engineers are responsible for the safe operation and maintenance of industrial equipment such as boilers, steam and gas turbines, generators, gas and diesel internal combustion engines, pumps, condensers, compressors, pressure vessels and related controls.

Power Engineers may be employed in any industry in which boilers are used. For example, they may be employed in gas plants, power generating plants, heavy oil plants, refineries, hospitals, hotels and other institutions and is typically shift-work.

There are 5 levels of provincial certification for power engineers:

5th, 4th, 3rd, 2nd and 1st Class.

Earnings for power engineers vary according to the level of certificate held and the responsibilities of the position.



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Pathways to POWER ENGINEERING



Complete High School Credits:
Introduction to Power Engineering
20L & 30L



[HTTPS://VIRTUALSCHOOL.PRAIRIESOUTH.CA/
CLASS-5-POWER-ENGINEERING](https://virtualschool.prairiesouth.ca/class-5-power-engineering)

Pathways to Power Engineering

When Opportunity Comes to You



 **SaskPower**
Powering the future

**Prairie
South
Schools** **210**
Learning together.

How it Works



Complete Power Engineering 20L and 30L and earn two high school credits online and challenge 5th Class exam.

- **Semester 1:**Power Engineering 20L
- **Semester 2:**Power Engineering 30L
- Regular online courses which are timetabled into your schedule for each semester
- Each course has a work-study component involving industry worksite and mobile lab experience.

Power Engineering Theory

- Read the text book and summarize content
- Interactive videos to illustrate content
- Self-assessment quiz, unit tests and a multiple choice final exam

Power Engineering Work Study

- Hands on learning to apply concepts in a worksite environment: three 8 hour sessions
- Apply concepts in mobile steam lab: three 8 hour sessions



How to Get Started

- Meet with your career counsellor for details on program registration requirements
- Complete program application by set due date

Do You Have What It Takes

- I enjoy the challenge of learning on my own
- I have strong organizational and decision making skills
- I have effective verbal and written communication skills
- I can plan my own time efficiently
- I can take summarized notes after reading a text book
- I have a keen interest in math and science
- I have completed a 20 level Math and Science10
- I enjoy troubleshooting and would be interested on learning about mechanical and heating systems
- I am committed to weekend work study sessions

"Someone who is dedicated to their classes and able to learn from reading and applying theories to hands on experiences. To be successful students must stick to the timeline and be interested in what they are doing."

- Baily, Power Engineering Student

The Opportunity

Completion of the 2 credits will prepare high school students to meet the requirements for 5th Class Power Engineering Certification. Taking the courses will provide students:

- Earn 2 high school credits toward graduation
- Link classroom learning with future workplace
- Connect with industry and perspective employers
- Build essential employability skills
- Insight into the Power Engineering profession along with other trades such as Millwrights, Welders, Chemical Technologists and Instrumentation Technicians
- Receive post-secondary credit transferable to possible further study in the Power Engineering field



To learn more about becoming a Power Engineer go to our website:

<https://virtualschool.prairiesouth.ca/class-5-power-engineering>