great plains college

POWER ENGINEERING (THIRD CLASS)

6-MONTH CERTIFICATE • SWIFT CURRENT

CAREER OPPORTUNITIES

Power engineers operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, industrial and institutional buildings and other work sites.

They are employed by power generation plants, electrical power utilities, heavy oil upgraders and gas processing plants, manufacturing plants, mines, hospitals, universities and government and commercial establishments.

EARNING POTENTIAL

In 2016, the average annual wage range for full-time power engineers or process operators in Saskatchewan was $66,100 - $99,000 according to the Saskatchewan Ministry of the Economy. Employees may earn more or less depending on their employer, location, size of company, level of training, experience and hours worked.

WHAT YOU WILL LEARN

Receive training in high and low-pressure boiler operations, water treatment systems, pump operations, controls and instrumentation, air conditioning and refrigeration, checking and maintaining equipment, using computers to monitor plant operations, plant safety, environmental (pollution) management and communications.

The program also requires a three-week power lab in Saskatoon (costs to attend are the responsibility of the student) and a 60-hour work placement. Students will cover the theory required to prepare them for the third class interprovincial exams during the duration of this program.

ENTRANCE REQUIREMENTS

- Fourth Class Power Engineering license
- NOTE: While chemistry, physics and geometry-trigonometry are not program entrance requirements, some employers may require these subjects. Students are strongly encouraged to have current Standard First Aid & CPR “A”, H2S Alive and WHMIS certificates prior to start of program. Many employers require the certification for work placements.
- A mandatory orientation lab is required for students who did not complete their lab training at the Saskatoon, Saskatchewan Polytechnic lab while obtaining their fourth class designation.
- English language requirement

Please note that if you do not meet these entrance requirements, special admissions options may be available.

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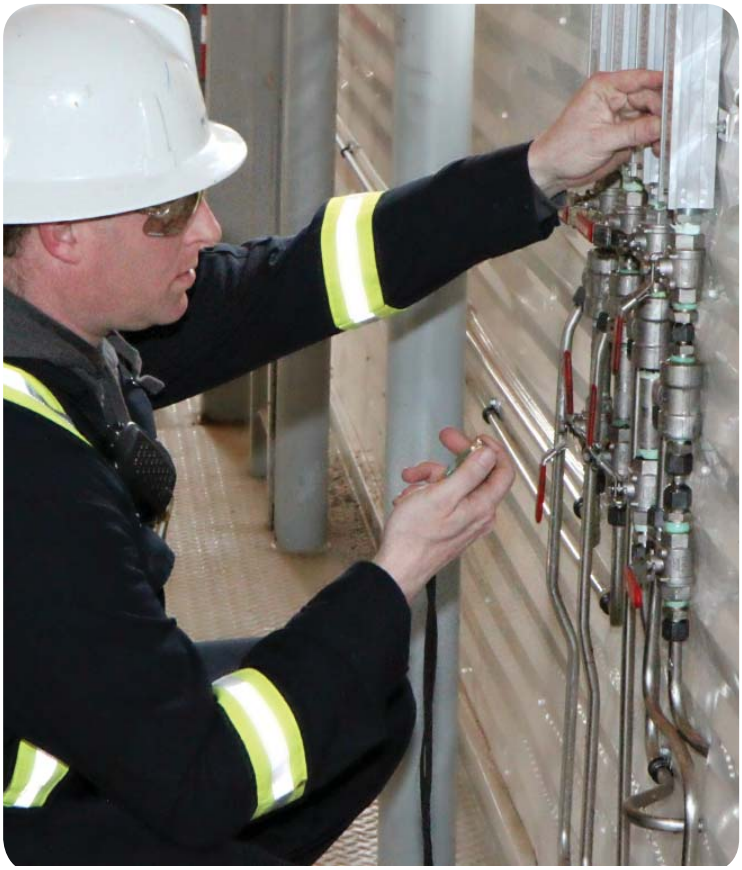

COURSE LIST

- ELEC 291 - Basic Electricity 2
- ENGP 280 - Refrigeration
- ENGP 284 - Applied Mechanics 2
- ENGP 285 - Power Lab 3
- ENGP 286 - Codes and Calculations 1
- ENGP 290 - Pumps and Compressors
- ENGP 292 - Prime Movers and Plant Auxiliaries
- ENGP 296 - Industrial Chemistry, Metallurgy and Drawings
- ENGP 297 - Combustion, Piping and Plant Management
- INST 280 - Controls and Instrumentation
- MATH 390 - Technical Mathematics for Engineering Calculations
- PROP 280 - Process Simulations 2
- STEA 286 - Steam Generation 2
- THER 281 - Thermodynamics 2
- WORK 186 - Work Experience 2
- WTER 280 - Water Treatment 2

Visit www.greatplainscollege.ca/programs-courses for detailed course descriptions.

SCHOLARSHIP ELIGIBLE

Apply before February 28, you may be eligible for an Entrance Scholarship.

FIND OUT MORE

To find out more about the Power Engineering Third Class program, book an appointment with a student adviser today.

Toll-free: 1 (866) 296-2472
Swift Current: (306) 773-1531
Email: info@greatplainscollege.ca