

# POWER ENGINEERING TECHNOLOGY

## PROGRAM OVERVIEW

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The Power Engineering Technology program is designed to train students to become certified, technically skilled professionals who are responsible for the safe operation and maintenance of large complex power and process systems.

This program offers a high-level course of study and gives the students an in-depth knowledge of a wide variety of thermal processes and auxiliary equipment. The program is structured so that you are eligible to attempt the Alberta Boilers Safety Association (ABSA) certification examinations (Fourth Class, Third Class, and Part A of Second Class) as you successfully complete each semester of the program.

The Power Engineering Technology program focuses on:

- Technical communications
- Thermodynamics
- Engineering chemistry
- Electrical principles
- Power theory
- Process control
- Boiler measurement and control systems
- Hands-on work experience in our world-class labs

## PROGRAM LENGTH

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Two-year program, consisting of four 15-week semesters. Fall start. Full-time study.

## CREDENTIALS & ACCREDITATION

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After successfully completing this program, graduates will receive a SAIT diploma in Power Engineering Technology.

The program is integrated with the Alberta Boilers Safety Association (ABSA) certification system.

## THE SAIT ADVANTAGE

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- Graduate work-ready in only two years
- Learn from industry-experienced and professionally-trained instructors
- Apply for a chance to receive a piece of nearly \$200,000 in student awards available for MacPhail School of Energy students, in addition to awards available for all students
- Benefit from curriculum that is guided by our partners in industry to ensure that it remains up-to-date and relevant
- Enjoy world-class facilities including our brand-new Power Engineering Building
- Take comfort in the fact that MacPhail School of Energy graduates have a high employment rate and earn the highest starting salaries at SAIT

## MACPHAIL SCHOOL OF ENERGY

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The MacPhail School of Energy is the first school of energy in Canada and one of only a handful of energy schools in North America.

The MacPhail School of Energy offers a range of energy training programs and applied research for students at all points in their careers.

Whether you are just starting-out, looking to make a career change, or want to build on your career experiences, we have a program that will suit your needs.

Training is available in all major areas of the energy industry, including petroleum, electrical, chemical, power, instrumentation, chemical engineering, environmental, and energy asset management.

The MacPhail School of Energy prepares students to meet the demands of the energy sector through our degree, diploma, certificate and apprenticeship programs, distance and continuing education courses, and corporate training solutions.

## ADMISSION REQUIREMENTS

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Alberta High School Diploma or equivalent with at least 50% in the following courses or their equivalents: Pure Math 30, English Language Arts 30-1 or English Language Arts 30-2, and either Science 30 or Physics 30.

*For complete admission requirements visit [sait.ca](http://sait.ca).*

## FROM DIPLOMA TO DEGREE

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Through SAIT Polytechnic transfer agreements and institution partnerships, graduates of this SAIT program may be eligible for credit at other universities and colleges.

*For more information visit [sait.ca/transferoptions](http://sait.ca/transferoptions).*

## YOUR CAREER

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Power Engineers find employment in power generation plants, industrial facilities of all types, residential and commercial buildings.

Opportunities for employment exist in processing industries such as petrochemical, fertilizer, pulp and paper, natural gas processing, petroleum refining, utilities, manufacturing & production, and food & beverage production. Opportunities also exist for positions in field and design offices and mechanical or industrial sales outlets.

In 2010, SAIT Power Engineering Technology graduates had a 100% employment rate.\*

## CAREER RESOURCES

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**Alberta Occupational Profiles:**  
[alis.gov.ab.ca](http://alis.gov.ab.ca)

**Petroleum Human Resources Council of Canada:**  
[careersinoilandgas.com](http://careersinoilandgas.com)

## INDUSTRY ASSOCIATIONS

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**Alberta Boilers Safety Association (ABSA):**  
[absa.ca](http://absa.ca)

## GRADUATE EMPLOYMENT STATISTICS

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**2010 Power Engineering Technology Graduates:**  
Average starting salary: \$74,064\*

## EXPERIENCE SAIT

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### Open House

Come to our Open House events in October and February to learn more about this and other programs, to tour our training facilities and to meet our instructors.

*For more information visit [sait.ca](http://sait.ca).*

### Information Sessions

Parents and students are welcome to attend a free information session to learn more about this program and career opportunities.

### Student for a Day

Come try out one of our programs for yourself by registering for our free Student for a Day program. You will spend a day going to classes, touring campus, and experiencing what life is like at SAIT.

*For dates and more information on Information Sessions or Student for a Day, visit [sait.ca/energy](http://sait.ca/energy) and view our Events page.*

## FOR MORE INFORMATION

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### To learn more about SAIT:

[sait.ca](http://sait.ca)  
[furtheryourpassion.ca](http://furtheryourpassion.ca)

### Program details:

[sait.ca/energy](http://sait.ca/energy)

### Student scholarships and awards:

[sait.ca/studentawards](http://sait.ca/studentawards)

### Additional resources available at [sait.ca](http://sait.ca):

- Career Counselling
- Academic Upgrading
- English Language Foundations
- Prior Learning Assessment and Recognition

## CONTACT US

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### MacPhail School of Energy

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### Find us on Facebook:

[facebook.com/saitenergy](https://facebook.com/saitenergy)

### Visit our Blog:

[saitenergy.wordpress.com](http://saitenergy.wordpress.com)

### SAIT Student Services

403.284.7248  
1.877.284.7248  
[advising@sait.ca](mailto:advising@sait.ca)



1. Download a free QR code reader.  
2. Take a picture/Scan the QR code.  
3. This code will dial the MacPhail School of Energy phone number.