

POWER ENGINEERING

BRITISH COLUMBIA
INSTITUTE OF
TECHNOLOGY

DISTANCE AND ONLINE
LEARNING

bcit.ca



Power Engineering Distance and Online Learning

BCIT offers programs in all levels of Power Engineering Certification, including Refrigeration Plant Operator, Fifth, Fourth, Third, Second, and First Class.

The programs are directed primarily at those currently employed in industrial power plants and building systems operation, including oil and gas processes, who are interested in obtaining higher levels of certification. Courses provide the knowledge required to sit for the Interprovincial Power Engineering Certification examinations.

Instruction is provided through distance education or tutorial modes.

Our programs offer a number of benefits:

- > Assignments are closely based on the syllabi of the Interprovincial Certificate Examinations.
- > Get help from an experienced instructor via telephone, fax, e-mail, or drop-in assistance.
- > In certain situations, computer videoconferencing may be used by the instructors to explain concepts.
- > Supplemental information may be provided to augment or clarify the Interprovincial Standardized Course materials where necessary.
- > Timely correction of assignments and exams.



Method of Instruction

With distance learning, complete your studies through distance education, tutorial help at the Burnaby campus, or a combination of these two methods. Flexible classroom hours allow you to schedule Power Engineering Resource Centre visits around your work schedule.

Communication between distance education students and the instructor is maintained by, e-mail, fax, and/or telephone. Online discussion groups integrated into the Power Engineering course software are also provided for daily communication between students and instructors.



MORE INFORMATION

Power Engineering
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3700 Willingdon Avenue
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Burnaby Campus Resource Area

Distance education students living near the Institute or passing through Burnaby may drop in to the Power Engineering Resource Centre to access all of the resources available. These resources include assistance from the tutorial instructor, as well as an extensive library of books, videos and other instructional media. Short lectures on course material on a one-on-one basis or in small groups are provided at the resource centre when requested by students. Resource area hours are from 8:00 am to 3:00 pm, Monday through Friday. From mid-October to mid-May, evening instruction runs Tuesday through Thursday until 7:30 pm (computer video conferencing is available during these late hours).

Actively-registered students who are sponsored by their employer to attend the tutorial centre may do so at no extra cost as part of their study program. Participants submit online quizzes or written assignments, which are graded. A final examination must be passed for successful completion in each course.

Prerequisites

Those who wish to enrol in programs are required to have a good command of written English. It is advised that you have a minimum of Math 11 to complete this program. Additionally, First, Second, and Third Class applicants must possess the next lower Interprovincial Power Engineers' Certificate.

Program Length

The allowable time period for completion of the course(s) in which you register is one year from the date of registration. To obtain the best value from a program, participants conducting their studies on a part-time basis are advised to spend a minimum of 15 hours per week in three or four sessions.

The average time taken to complete each program based upon this time investment is:

Fifth Class	4 months
Refrigeration Plant Operator	4 months
Fourth Class - Part A&B	8 months
Third Class – Part A	6 months
Third Class – Part B	6 months
Second Class – Part A	8 months
Second Class – Part B	8 months
First Class – Part A	10 months
First Class – Part B	10 months

Sponsored Students

Upon application to your local Human Resources and Development Canada office, you may be sponsored to attend a Certificate Program at BCIT using the tutorial centre on a full-time basis. Under these conditions, participants on average may progress through a program within the following time periods:

Fifth Class	8 weeks
Refrigeration Plant Operator	8 weeks
Fourth Class	18 weeks
Third Class – Part A	8 weeks
Third Class – Part B	8 weeks
Second Class – Part A	16 weeks
Second Class – Part B	16 weeks
First Class – Part A	20 weeks
First Class – Part B	20 weeks

You must satisfy all of the BC Safety Authority requirements for practical qualifying experience relative to the certificate for which you are a candidate. A letter may be obtained from the power engineering department chief instructor verifying a candidate's academic prerequisites and is usually required by Human Resources and Development Canada prior to receiving sponsorship in a program.



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Distance Education Mode Registration

You may register for a program inclusive of the Interprovincial Course manuals, or if you already have the materials, for the instructional service only. Program intake is continuous and there is no pre-registration requirement.

To ensure you are registered in the correct courses, it is important that you e-mail the power engineering program assistant. Contact information available on the side of the brochure. Once approved you will receive a registration form and information directly by e-mail from the Program Assistant. We are currently restricting registration for the 5th, RPO and 4th Class to students that either have or will have their work experience (firing time) while doing their courses. BCIT runs a Power Lab (4th Class only) once a year for students that cannot obtain firing time in industry. There is a limited number seats available for the Power Lab and entry is competitive. Please follow the instructions for registration and payment.

Fourth Class Part A and B must be registered together. Third Class is normally done as a “group” of two courses as indicated in the tuition fee schedules in this brochure. Second and First Class courses are registered maximum two courses at once. Alternately, you may register for any course for which you possess the specified prerequisites. This may be desirable for those who have previously completed some papers of the Interprovincial examinations.

The allowable time period to complete your course(s) is one year from the date of registration. You may otherwise be required to pay additional fees to continue. To avoid this, please ensure you are prepared to commence your studies immediately upon registration.

Course Materials

Program tuition fees are paid independently of the course materials. Course textbooks and related study materials are purchased directly from the BCIT Bookstore. They may be purchased in person, by telephone, or online.

Materials lists and prices for each course are available online at bcit.ca/bookstore. Click the link for “distance and online learning store.” In the dropdown lists, select the “campus/term” that is available and then select the “department” specified as “DE – POWER – POWER ENGINEERING.” Then, in the other dropdown list, select the course and the course section in which you are interested. Required and optional texts and materials will be displayed, along with current pricing.



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Interprovincial Examinations

To qualify to write the Interprovincial Power Engineering Certification examinations, a candidate must have a specified number of months of practical qualifying experience as outlined in the British Columbia Safety Standards Act and the "Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation."

As stated in the Power Engineers, Boiler, Pressure Vessel and Refrigeration Safety Regulation, Interprovincial examination candidates employed in a power plant of certain specifications may, upon completion of a recognized study program, be entitled to a reduction in plant qualifying experience as follows:

Third Class – 6 months
Second Class – 9 months
First Class – 12 months

To qualify for the reduction, you must complete every course of the appropriate study program and all of its requirements. Course exemption may not be awarded based upon your previous completion of the related Interprovincial examination(s).

In order to write the Interprovincial Power Engineering Certificate examinations, approval of your specific plant-operating experience must be obtained from the British Columbia Safety Authority, Boiler and Pressure Vessel Safety Program. For further details, refer to bcsafetyauthority.ca.

Tuition Fee Schedule

Fees are subject to change without notice. Please visit bcit.ca/fees for the most current information.

Course Mode Course Title Tuition

POWR 1210 ONLINE 5th Class	\$340
POWR 1211 ONLINE Refrigeration Plant Operator	\$340
POWR 1213 ONLINE 4th Class – Part "A"	\$170
POWR 1214 ONLINE 4th Class – Part "B"	\$170
POWR 1215 ONLINE 3rd Class – Part "A" – Paper1	\$170
POWR 1216 ONLINE 3rd Class – Part "A" – Paper2	\$170
POWR 1217 CORR 3rd Class – Part "B" – Paper 1	\$170
POWR 1218 ONLINE 3rd Class – Part "B" – Paper2	\$170
POWR 1219 CORR 2nd Class – Part "A" – Paper 1	\$229
POWR 1220 CORR 2nd Class – Part "A" – Paper 2	\$229
POWR 1221 CORR 2nd Class – Part "A" – Paper 3	\$229
POWR 1222 CORR 2nd Class – Part "B" – Paper 1	\$229
POWR 1223 CORR 2nd Class – Part "B" – Paper 2	\$229
POWR 1224 CORR 2nd Class – Part "B" – Paper 3	\$229
POWR 1225 CORR 1st Class – Part "A" – Paper 1	\$229
POWR 1226 CORR 1st Class – Part "A" – Paper 2	\$229
POWR 1227 CORR 1st Class – Part "A" – Paper 3	\$229
POWR 1228 CORR 1st Class – Part "A" – Paper 4	\$229
POWR 1229 CORR 1st Class – Part "B" – Paper 1	\$229
POWR 1230 CORR 1st Class – Part "B" – Paper 2	\$229
POWR 1231 CORR 1st Class – Part "B" – Paper 3	\$229
POWR 1232 CORR 1st Class – Part "B" – Paper 4	\$229

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