

**April 2018**

**Thank you for your inquiry into our “Fifth Class Power Engineering” Exam Preparation course, offered by the River East Transcona School Division’s Continuing Education program. We are planning on offering the next course in the Fall of 2018.**

---

**Fifth Class Power Engineering Exam Preparation Course**

**SCHEDULE: 20 Saturdays**

**TIME & LOCATION: 8 a.m. to 12:30 p.m. at Kildonan East Collegiate, 845 Concordia Ave.**

**Start date** Sept. 8, 2018.

**END DATE:** Feb. 23, 2019.

No class dates: Dec 22, Dec. 29, and Feb. 16.

---

**COURSE FEE: \$499**

**TEXTBOOKS: Approx. \$450**

---

**Power Engineering 5th Class Textbook Set (Ed.3.2)**

Students are responsible for purchasing / acquiring the textbooks on their own.

Order at least 1-2 weeks in advance at Red River College Bookstore <http://bookstore.rrc.ca> or 204.632.2590 or from Panglobal publishers [www.powerengineering.org](http://www.powerengineering.org).

**Textbook TITLE: Power Engineering 5th Class Textbook Set (Ed.3.2)** Published by Panglobal.

---

**The textbook set includes three volumes:**

Book 1 - Low Pressure Boiler Components & Operation,

Book 2 - Elements of Human Comfort in Facility Operation, and

Book 3 - Basic Physical Science, Safety & Regulation for Facility Operation.

**\*\*\*USED TEXT Books are acceptable for this course\*\*\*\***

– if you can find a set to buy or borrow from a former student – a used edition of the textbook set - Edition 3.0 recommended. Older editions (2.0) do not have the corrections or new material found in Ed. 3.0 or 3.2.

**Please contact Gail Bobowski at [gbobowski@retsd.mb.ca](mailto:gbobowski@retsd.mb.ca) or 204.667.6193 for more information.**

---



**IN ADDITION to your Textbooks:** Students are required to obtain a used, or new copy of the Academic Supplement, or an electronic copy of the PDF file: “Handbook of Formulae and Physical Constants” from 2003 (online link for this free PDF shown below).

---

If you can find a used copy of the ‘Academic Supplement’ that had been sold previously with Edition 2.0 and 3.0 – that book would be useful to have for this course as well. The new textbooks no longer sell the ‘Academic Supplement’. To buy a new copy of the ‘Academic Supplement’ will cost 52.50 and is only available online from PanGlobal. **ALTERNATIVELY:** You may download an older copy of the most useful portion of the ‘Academic Supplement’ to use for your course - the section called “Handbook of Formulae and Physical Constants”. This is an older copy available online - from 2003. Found at [http://web.mef.hr/web/images/pdf/for\\_const.pdf](http://web.mef.hr/web/images/pdf/for_const.pdf)

---

**...Page 2**

Page 2...

### Course details:

---

This exam study course (approved by the Office of the Fire Commissioner) focuses on all aspects of heating plant operation. It will be of interest to anyone interested in working towards gaining the certification needed to operate or maintain a heating plant in a school, apartment building or similar setting. The course is comprised primarily of lectures; students are also expected to put in a substantial number of study on their own (at least 2.5 hours/week) to cover the material. A course outline will be provided to registered students before the start date of the course. **More information regarding how to become eligible for a 5<sup>th</sup> Class Power Engineering certificate is further below.**

### Course Requirements:

---

Individuals who possess basic math skills, a good working knowledge of English, an ability to understand technical drawings and terms, who have time to study and are able to attend at least 18 out of the 20 classes scheduled will have the essentials to complete this course successfully.

### Achieving Course Credit:

---

Students who maintain 90% attendance and achieve 65% in our final course test will be awarded a credit, recognized by the Office of the Fire Commissioner of a value that is equal to 450 boiler hours in a low pressure plant, which is half of the 900 boiler hours needed as partial requirement to obtaining the 5<sup>th</sup> Class Power Engineering certification.

### Power Engineering Certification in Manitoba:

---

#### - **Becoming eligible for 5<sup>th</sup> Class Power Engineering Certification**

Inspection and Technical Services, Office of the Fire Commissioner is the department responsible for administering the provincial exam and for receiving and processing certification requests. To become certified as a 5<sup>th</sup> class Power Engineer, individuals are required to provide to Inspections and Technical Services, Office of the Fire Commissioner the following:

1. proof of having worked for 900 hours (6 months of full-time work) in a building heated by a low pressure plant\*\*\* such as in a small apartment building, community centre, church or school, and
2. must also achieve a mark of 65% in the provincial exam, administered by. Students who are successful in this study course with Continuing Education at the River East Transcona School Division will be awarded a credit equal to half of their boiler hour credits or 450 boiler hours.

**\*\*\*Boiler experience must be completed while assisting in the operation of a steam or hot water boiler developing over 200 kW (20 boiler horsepower).**

...Page 3

Page 3....

### **Students' Responsibilities for completion of their certification:**

---

Once students complete this course, they are responsible – on their own - for arranging to write their provincial exam with the Office of the Fire Commissioner and to find their practical boiler experience on their own. The number of practical hours needed will depend on whether or not they have met the minimum requirements of the course (90% attendance and 65% in the course final test).

- 1. Students who have met the minimum requirements for this course as described above will receive** a 450 boiler hour credit recognized by the Office of the Fire Commissioner, and will therefore only have to arrange to write their exam with the Office of the Fire Commissioner, and arrange to find the remaining 450 practical boiler experience hours required to be considered for certification.
- 2. Individuals who are not successful in this course** should still apply to write the provincial exam after the course has been completed, and try to find a place to gain their 900 boiler hours required to be considered for certification.

**Final steps toward certification:** Once students have acquired their boiler hours and passed the provincial exam, they are responsible for gathering all documents, funds and applications to apply to receive their 5<sup>th</sup> Class Power Engineering certification from the Province of Manitoba through the Office of the Fire Commissioner.

I hope this information has been helpful.

If I can be of any other assistance, don't hesitate to contact me at 204.667.6193, ext. 3040 or [gbobowski@retsd.mb.ca](mailto:gbobowski@retsd.mb.ca)

Best regards,  
Gail Bobowski,



Program Coordinator, Continuing Education  
River East Transcona School Division