

May 17, 2017

Notice - Reorganization of SOPEEC* 4th Class Power Engineer Syllabus

This is to provide notice to stakeholders of significant changes to the 4th Class Power Engineer Syllabus and Examinations that will become effective November 1, 2017.

In support of the request of IPECC* and industry to realign the learning process of Power Engineering Syllabus topics, ACI* members approved the 2014 IPECC motion to reorganize the 4th Class SOPEEC Syllabus to be used across Canada at their August 26th, 2014 annual ACI meeting in Ottawa.

In Alberta, the Administrator for the pressure equipment discipline establishes this Syllabus to be used in Alberta under the Power Engineers Regulation.

Key points and dates

- A list of topics from the revised syllabus is included below. The complete revised syllabus is expected to be published by January 2015.
- There will be a three year transition period beginning in 2017.
- Power Engineering course providers are expected to start offering registration in courses based on the 2017 syllabus by May, 2017.
- The revised 4th class examinations will be offered commencing November 1, 2017.
- The existing 4th class examinations will be offered until October 31, 2020 under the following conditions.
 - Examination candidates who are enrolled in an existing 4th class power engineering course as of November 1, 2017 will be eligible to complete the examinations under the current syllabus until October 31, 2020. These candidates may choose to write the examinations under the revised (2017) syllabus.
- The existing 4th class examinations will not be offered after October 31, 2020.
- Examination candidates who enroll in a 4th class power engineering course after November 1, 2017 will only be eligible to write the examinations under the revised (2017) syllabus.

*Note: SOPEEC represents the “Standardization of Power Engineer Examinations Committee”

ACI represents the “Canadian Association of Chief Inspectors”

IPECC represents the “Interprovincial Power Engineering Curriculum Committee”

Revised 2017 4th Class Power Engineers Syllabus

Part A Examination Syllabus (2017)

- A1. Elementary Mechanics and Dynamics
- A2. Elementary Chemistry and Thermodynamics
- A3. Jurisdictional Legislation and Codes for Power Engineers
- A4. Power Plant / Heating Plant Safety
- A5. Environment
- A6. Material and Welding
- A7. Piping and Valves
- A8. Electricity
- A9. Energy Plant Controls and Instrumentation
- A10. Plant Communication
- A11. Boilers
- A12. Boiler Systems

Part B Examination Syllabus (2017)

- B1. Lubrication
- B2. Pumps and Compressors
- B3. Boiler Safety Devices
- B4. Plant (Boiler) Operations
- B5. Power Plant /Heating Plant Maintenance
- B6. Water Treatment
- B7. Prime Movers and Engines
- B8. Auxiliary Building Systems
- B9. Refrigeration
- B10. Heating Ventilating and Air Conditioning
- B11. Heating and Cooling Systems
- B12. Types of Plants

The following is the timeline chart to show the implantation of 2017 4th Class Power Engineering Syllabus.

