

# **Power Engineer - Compressor Plant Operator**

## **Educational Requirements**

Completion of Grade XII of a Nova Scotia high school or its equivalent.

## **Application to Undertake Examination**

A candidate must submit an application and the prescribed fee at least thirty (30) days before the date of the examination as shown on the examination schedule.

## **Examinations**

The examination consists of two papers, each of 3 1/2 hours duration.

## **Experience Requirements**

Every applicant for a Compressor Plant Operator Certificate of qualification shall have the following practical experience:

- (a) 12 months experience in the operation of air or gas compressor equipment in a compressor plant;
- (b) 6 months of the experience described in clause (a) and at least 12 months experience in the design, construction, installation, repair or maintenance of equipment of a compressor plant; or
- (c) 3 months of the experience described in clause (a) and a degree in mechanical or chemical engineering, or the equivalent, from an accredited university program.

## **Mathematics**

Grade XII mathematics of a Nova Scotia high school, or its equivalent, and in particular, a knowledge of arithmetic sufficient to enable the candidate to solve any normal problem involving the use of multiplication, division, simple fractions and decimals.

## **Compressors**

A good working knowledge of the laws governing the compression and expansion of air and the gases; the construction, care and operation of all sizes of reciprocating machines used to compress air (or other gas, or mixture of gases). The use of two or more stages of compression, and the reasons for their use, cylinder and interstage cooling; receivers for the storage of air or other gas under pressure; the correct lubrication of compressors and suitable lubricants; the governing and unloading mechanism, valves and piping associated with reciprocating compression machine; and maintenance of compressors.

A general knowledge of the various types of rotary compressors positive displacement, centrifugal and axial-usually delivering large volumes of air (or other gas) at moderate pressures.

## **Recommended Study Program**

It is recommended that, before undertaking this examination, the candidate refer to the Southern Alberta Institute of Technology study guide on compressors, pumps and lubrication.

**The candidate must show picture I.D. at the examination**