



ENGINEERS

Engineers use science and math to describe how things behave in nature. They apply science and math to solve problems and improve our quality of life. Engineering consulting firms; government; utilities; manufacturing, processing and transportation industries; and research, healthcare, and educational institutions employ engineers. They may also be self-employed.

EDUCATIONAL REQUIREMENTS

A bachelor degree in Engineering, accredited by the Canadian Engineering Accreditation Board (CEAB), or equivalent, is required. Otherwise graduates of non-CEAB-accredited programs may apply for the assessment of their academic qualifications.

WORK EXPERIENCE REQUIREMENTS

A minimum of four years of engineering experience is required. At least one year of this experience must be obtained in a Canadian environment. At least three of these years must be obtained after completion of the degree.

ASSESSMENT PROCESS

To become registered as a Professional Engineer in Manitoba an individual must first apply to the **Association of Professional Engineers and Geoscientists of Manitoba (APEGM)**. The applicant must submit:

- a completed application form (available from APEGM);
- original degrees or diplomas;
- all available syllabi (course descriptions); transcripts of marks (statements of marks); thesis (if one has been written); resume; and
- an assessment fee of \$337.00.

If documents are not in English, notarized translations are required.

Credentials are assessed against a syllabus developed by the Canadian Engineering Qualifications Board (CEQB) to determine equivalency to a CEAB accredited program. A course-by-course assessment is done by APEGM. As a result of this assessment, applicants are normally required to write four to fifteen examinations. Sometimes fewer exams are assigned depending on the completeness of the degree (in comparison with the CEQB syllabus) and whether or not additional qualifying post-graduate degrees have been completed.

Examinations are held in May and December of each year. Candidates are given syllabi, textbook information etc. to help them prepare for examinations. Candidates are expected to complete an average of one examination per session. (For example, a candidate assigned four examinations will be given two years to complete them). Each examination costs \$240.00 and there is an annual administration fee of \$128.00.

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Upon successful completion of examinations, candidates must enrol with APEGM as *Engineers-in-Training (EITs)*. The enrolment fee is \$107.00 plus the annual dues of \$116.00. (i.e. first-time enrolment is \$223.00). As *EITs*, candidates are expected to submit detailed information on their work experience, including the names and addresses of supervisors. Supervisors also must submit reports in order to verify this information. Candidates who had been assigned a confirmatory examination program are often allowed to count experience gained in other countries or provinces as well as experience gained in Manitoba while on the exam program. **It is therefore very important that candidates maintain contact with previous employers.*

Finally, all *EITs* are required to pass the *Professional Practice Examination* and provide references before they can become registered as Professional Engineers in Manitoba. When all requirements have been successfully completed, and all fees have been paid (*annual dues for 2005 are \$264.00*), candidates are registered in Manitoba as Professional Engineers.

The fees, documentation requirements, and assessment process detailed above are subject to change without notice.

For more detailed information contact:

Association of Professional Engineers and Geoscientists of Manitoba (APEGM)

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