

Professional Engineers Ontario (PEO)
&
P.Eng. Licensure and Benefits

by

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What is professional engineering????

P. Eng. = Licence & Designation

EIT = Designation

- Professional Engineers Act
- any act of designing, composing, evaluating, advising, reporting, planning, directing or supervising;
- that involves third-party concerns related to life, health, property and the public welfare (including the environment) and
- that requires the application of engineering principles.

What is professional engineers Ontario (PEO)?

- PEO is a self-governing and self-regulating organization
- PEO is the regulatory body that licenses professional engineers in Ontario
- PEO sets standards for and regulates the practice of engineering in the province
- Under the Professional Engineers Act, PEO has the mandate to serve and protect the public interest where the practice of engineering is concerned
- PEO is responsible for licensing individuals to practise and authorizing individuals and companies to offer or provide engineering services
- PEO disciplines engineers and companies that fail to maintain the profession's standards
- PEO enforces compliance with the Act, so that only those who are qualified may practise engineering or lead others to believe they are qualified to practise

PEO fulfills the same role as the College of Physicians and Surgeons for physicians, and the Law Society of Upper Canada for lawyers

Licence and Certificate of Authorization

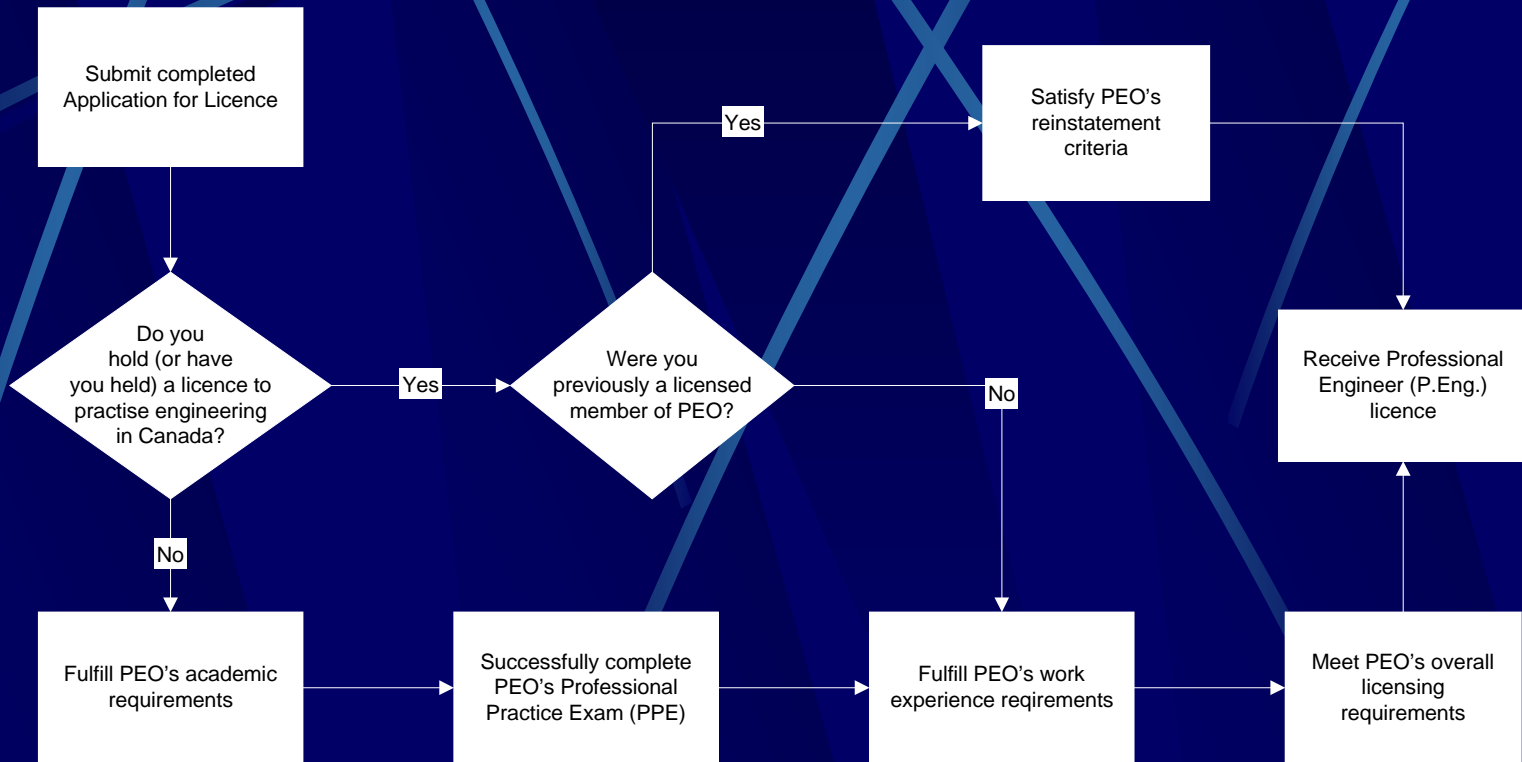
- Membership in the PEO is open to Canadian citizens and/or permanent residents (No longer is a requirement)
- Residency in Ontario is no longer a requirement
- Each licence classification can be identified by the inscription on the seal, and there are specific rules on how the seal can be used
- The Professional Engineers Act requires that every individual offering professional engineering services hold a licence, and every business entity offering services to the public hold a **Certificate of Authorization** granted by PEO
- All certificate of authorization holders must either carry **professional liability insurance**, or disclose to each and every client that they are NOT insured.
- Non-conformance to this Regulation is considered to be professional misconduct

How can I apply for a P.Eng. Licence in Ontario?

Licence requirements:

- be at least 18 years old
 - be a citizen or permanent resident of Canada
 - be of good character
 - hold an undergrad engineering degree from a Canadian Engineering Accreditation Board (CEAB) or Engineers Canada
 - successfully complete PEO's Professional Practice Examination (PPE)
 - demonstrate at least 48 months of verifiable, acceptable engineering experience, at least 12 months of which must be acquired in a Canadian jurisdiction under a licensed professional engineer (P.Eng.)
- PEO will accept an Application for Licence before the applicant has satisfied all of the above-noted requirements; however, all requirements must be satisfied before a licence can be granted.
- In accordance with PEO's governing legislation, an applicant for licence must be able to communicate adequately in **the English language**. Therefore, if a question is raised, PEO shall make this determination.

How can I apply for a P.Eng. Licence in Ontario? – Cont'd



How can I apply for a P.Eng. Licence in Ontario? – Cont'd

Credential Assessment

- PEO does all credential assessments internally through the licensing and registration staff and the Academic Requirement Committee (ARC).
- The ARC is composed of volunteer professional engineers = **peer review**
- **The ARC review results:**
 - **Confirmatory Exam Program or Special CEP**
 - **Directed Confirmatory Exam Program**
 - **Specific (Individual) Exam Program**
- **Ryerson University**
- **University of Toronto (LIEP) – Civil, Electrical, Mechanical**
- **Licensing International Engineers into the Profession**

How can I apply for a P.Eng. Licence in Ontario? – Cont'd

Engineering experience

assessed against the following five criteria:

- application of theory
- practical experience
- management of engineering
- awareness of the social implications of engineering
- communication skills

Professional Engineering FACTs:

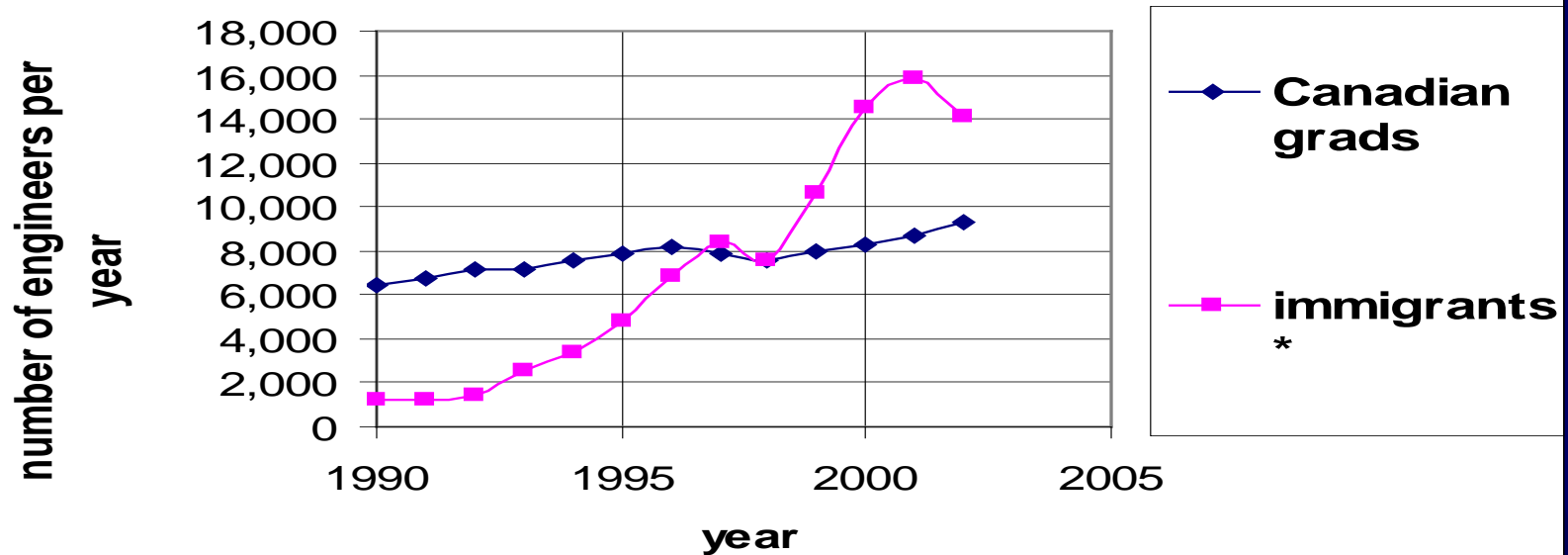
Immigration in the 1990's

- Engineering immigration increased 10 fold from about 1500/ year in 1992 to over 16,000/ year in 2001;
- (~ ½ of all immigrants come to Ontario)
- Total Canadian graduates ~ 8000/ year
- 2001 high tech crash => poor job market while Engineering supply dramatically increased
- Both new Canadian graduates and new immigrants cannot find enough Engineering jobs

Professional Engineering FACTs:

Engineering Supply

Engineering Supply Over the Past Decade



Professional Engineering FACTs:

Recent Immigration to Ontario:

- 2002: 9,500
- 2006: 3,400
- 1/3 of Canadian Professional Engineers are foreign trained
- High proportion of immigrant engineers registered per year

Professional Engineering FACTs:

Internationally educated applicants

| Applications Received | 2005 | 2006 | 2007 |
|------------------------------|-------------|-------------|-------------|
| Largest number | India | China | India |
| Second-largest number | China | India | China |
| Third-largest number | Iran | Iran | Iran |
| Fourth-largest number | Pakistan | Pakistan | Pakistan |
| Fifth-largest number | Bangladesh | Romania | Iraq |

Why should I apply for a P.Eng. licence?

- If you are going to be responsible for work that is defined as professional engineering according to the Professional Engineers Act, a P.Eng. licence is required
- Becoming licensed gives you the right to use “P.Eng.” after your name and “engineer” in your job title
- Licensing puts you within the professional membership community of the other 80,000 licensed Ontario professional engineers organized across the province in 36 chapters

Many graduates from an engineering program of study mistakenly believe they can use “engineer” in their job titles. That is not the case. Under the professional Engineers Act, you may only use “engineer” in your job title if you hold a “P.Eng.” licence

PEO is looking into the possibility of enforcing eligibility of getting “Iron Rings” for “P.Eng.” licence holders only. For more info about Iron Ring, visit www.ironring.ca

Values of A Professional Engineer Licence

- Right to Practise
- Service and Protection
- Honesty & Integrity
- Recognition & Respect
- Credibility
- Mobility to other provinces as licensed engineer
- Mobility to US and some other countries under the Engineers Canada's international mobility agreement (Washington Accord)*

* Mobility to US or other countries under the international mobility agreement may need additional exams/preparations depending on different jurisdictions

Licence and its types

- There are four licence classifications governing the practice of professional engineering:
 - * a full (or Member) licence (P.Eng.)
 - * a temporary licence
 - * a limited licence
 - * a provisional licence
- * Consulting Engineer Designation (C.Eng.)
 - * 5 years of P.Eng.
 - * 2 years of Certificate of Authorization
 - * 1/2 of income from consulting practice

Catch-22

- Provisional Licence
 - Written request
 - One year
 - Can be renewed for another year (only)
- Ontario Public Service (OPS)
 - Internship for Internationally Trained Engineers
 - Overview – paid work placement for 12 to 15 months, which will be acceptable by PEO as the required Canadian experience for licensing

<http://www.gojobs.gov.on.ca/ITE.asp>

Ontario Public Service (OPS)

- Eligibility:
 - Satisfied PEO's academic and technical requirements
 - Contented PEO's at least 36 months of acceptable and verifiable engineering experience
 - Passed PEO's Professional Practice Examination (PPE)
 - Be eligible for work and licensing in Canada
 - Have language skills adequate for the workplace
- Internship Assignment:
 - Chemical
 - Civil
 - Electrical
 - Environmental
 - Mechanical

What is PEO's EIT Program?

The EIT (Engineering Internship Training) program provides guidance and assistance to engineering graduates as they acquire the 48 months of acceptable engineering work experience required to be licensed.

Benefits Include:

- helps you understand the requirements for licensing, particularly the experience required for a P.Eng. Licence.
- offers you the opportunity to obtain detailed, confidential annual work experience reviews
- helps you demonstrate to employers and supervisors your commitment to becoming a licensed professional engineer
- encourages you to become involved in the profession because you will receive PEO publications, and can participate in PEO chapter activities and insurance and investment plans.

For more info on PEO and the EIT, visit <http://www.peo.on.ca/registration/eit.html> or send an email to eit@peo.on.ca or contact PEO www.peo.on.ca

What is PEO's FCP Program?

As of May 1, 2007 and under this Financial Credit Program (FCP), individuals who have graduated from Canadian Engineering Accreditation Board (CEAB) accredited bachelor of engineering programs or International Engineering Graduates (IEG) with a Bachelor of Engineering or Applied Science Degree may be able to apply for PEO's professional engineer licence at no cost.

What is the CEAB?

The [Canadian Engineering Accreditation Board](#) (CEAB) was established by the Canadian Council of Professional Engineers (CCPE) in 1965 to accredit [undergraduate engineering programs](#)

Who qualifies?

To qualify for the FCP applicants:

1. Must be 18 years of age or older.
2. Individuals must have graduated from either a [Canadian Engineering Accreditation Board \(CEAB\) accredited bachelor of engineering programs](#) or be an International Engineering Graduate (IEG) with a Bachelor of Engineering or Applied Science Degree.
3. Must be a Canadian citizen or have a Canadian Landing Status.
4. Must complete the online FCP application

Graduates of engineering programs or IEG applicants must ensure that all documents to support their FCP application are received by PEO *within six months of the date their degree from an engineering program or within six months of the date they landed* in Canada.

What is PEO's SMP Program?

The SMP (Student Membership Program) is Internet-based and open to all undergrad engineering students.

Benefits include:

- customized student website with postings about engineering news/presentations/surveys & issues
- access to Engineering Dimensions, PEO's official journal
- important information about your engineering career, including the required experience for the licensing
- invitations/email notices for local events/presentations offered by PEO chapters & other organizations
- opportunities to have PEO and members of the engineering community answer your questions about engineering

For more info on PEO and the SMP, visit www.engineeringstudents.peo.on.ca or send an email to smp@peo.on.ca or contact PEO www.peo.on.ca