



Professional Engineers
Ontario

P.Eng Licensing Process

Information Session

McMaster B.Tech. Students

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Agenda

- PEO
- Professional Engineering
- Types of Licences
- P.Eng. Licence Requirements
- Process Flow
- Questions



Professional Engineers Ontario

(R.S.O. 1990, CHAPTER P.28)

- Through the Professional Engineers Act (PEA), Professional Engineers Ontario governs licence and certificate holders and regulates professional engineering in Ontario to serve and protect the public.
- The principal object of the association is to regulate the practice of professional engineering and to govern its members in order that the public interest is served and protected. It protects the public by ensuring all professional engineers have met the rigorous qualifications for licensing and that only properly qualified individuals practise engineering



Professional Engineering

(R.S.O. 1990, CHAPTER P.28)

Section (1) of the PEA states:

“practice of professional engineering” means any act of planning, designing, composing, evaluating, advising, reporting, directing or supervising that requires the application of engineering principles and concerns the safeguarding of life, health, property, economic interests, the public welfare or the environment, or the managing of any such act”



Types of Licences

(R.S.O. 1990, CHAPTER P.28)

Licences issued to Individuals under the PEA include:

- Professional Engineering Licence (P.Eng);
- Limited Licence (LL);
- Provisional Licence (PL);
- Temporary Licence (TL);



P.Eng. Licence Requirements

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To be granted a licence to practice professional engineering the applicant must:

- be at least 18 Years of Age
- be of Good Character
- hold an undergraduate engineering degree from a Canadian Engineering Accreditation Board (CEAB)-accredited program or possess equivalent qualification.
- have successfully completed PEO's Professional Practice Examination (PPE)
- demonstrate at least 48 months of verifiable, acceptable engineering experience, at least 12 months must be under a licensed P.Eng.



P.Eng. Licence Requirements (/...cont. academics)

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33. (1) Each applicant for a licence shall comply with the following rules:

The applicant shall demonstrate that he or she has obtained,

- i. a bachelor's degree in an engineering program from a Canadian university that is accredited to the Council's satisfaction, or
- ii. equivalent engineering educational qualifications recognized by the Council.

Note:

McMaster B.Tech. graduates who apply for a P.Eng. Licence are assigned a Specific Examination Program (SEP) to demonstrate equivalency.



P.Eng. Licence Requirements (/...cont. academics)

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- e.g. Manufacturing Engineering Technology Program graduates until and including the 2007 academic year the specific program of examinations is the following:
 - Section A (2 exams): Kinematics and Dynamics of Machines & Design of Machine Elements;
 - Section B (2 exams): excluding Finite Element Analysis;
 - Engineering Economics;
 - Engineering Report
- What about graduates after 2007?
 - [Info provided to the school](#)
- What about graduates from other B.Tech programs?
 - SEP to be determined by PEO upon application



P.Eng. Licence Requirements (/...cont. academics)

(Guide - Page 5 under SEP)

How to address the SEP:

- Write PEO exams;
- Basic Exams assigned must be written first
- More than 10 years of engineering experience following **the conferral of the B.Tech degree**, applicants may be invited to attend an interview to discuss how experiential knowledge should be taken in consideration against each of the assigned exam;
- Course in lieu of writing PEO exams, must be pre-approved by PEO.



P.Eng. Licence Requirements (/...cont. PPE)

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- The Professional Practice Exam (PPE) consists of an Examination of Law and Ethics for the Practice of Professional Engineering in Ontario
- The PPE must be Passed by all Applicants for Licensure



P.Eng. Licence Requirements (/...cont. experience)

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Regulations section 33.(2) states: “Each applicant for a licence shall comply with the following rules:

The applicant shall demonstrate that he or she has had 48 months of experience in the practice of professional engineering....

Up to 12 months of the practical experience referred to above may be acquired after the applicant has completed one-half of the classroom component of the degree or equivalent educational qualifications. *The balance shall be acquired after the degree or equivalent educational qualifications are obtained.....*

At least 12 months of the balance referred to above shall be acquired in a Canadian jurisdiction, under the supervision of a P.Eng.”



P.Eng. Licence Requirements (/...cont. experience)

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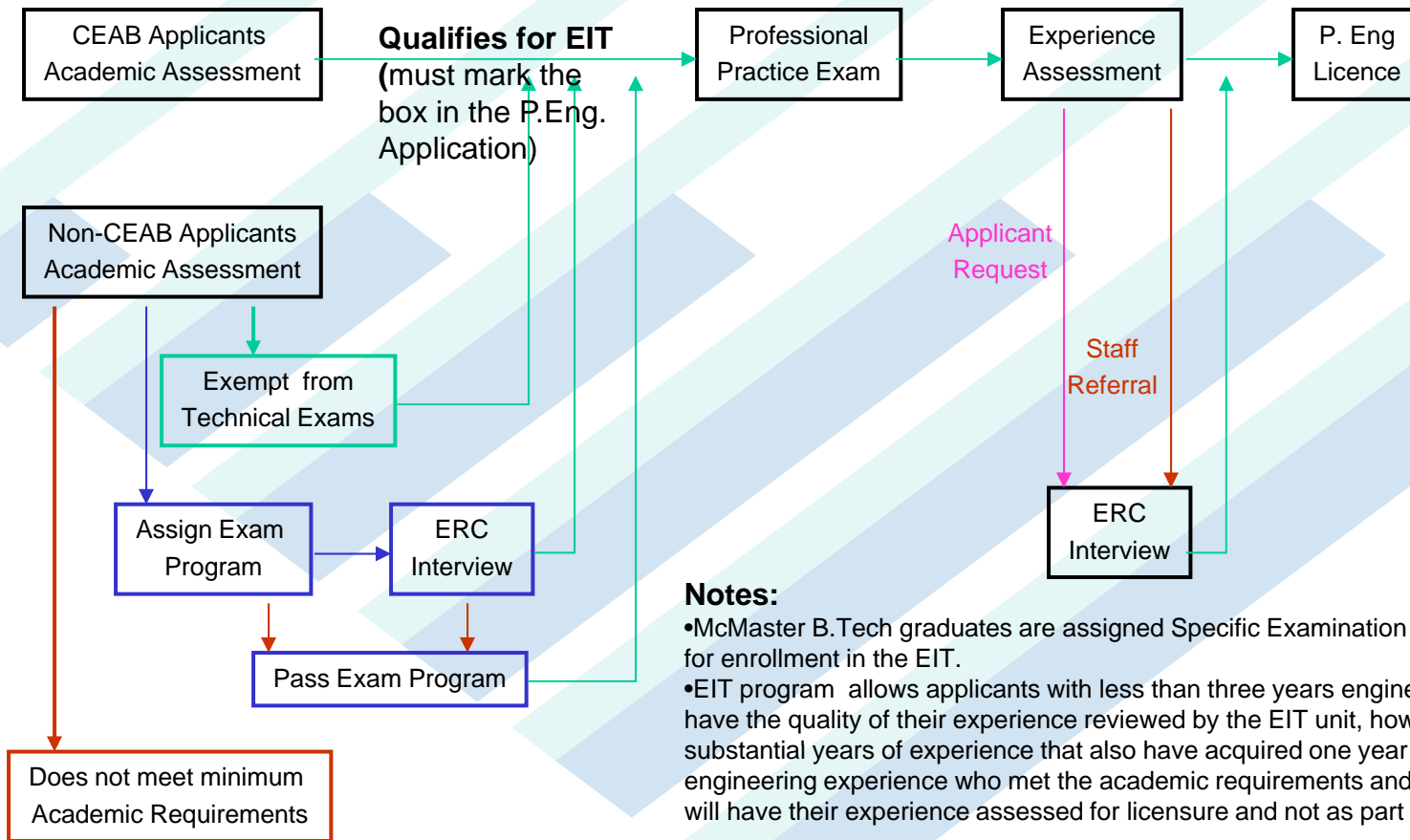
PEO evaluates each applicant experience against the five, quality-based criteria:

- ✓ **Application of theory;**
 - E.g. Analysis, Design, synthesis....
- ✓ **Practical experience;**
 - E.g. Testing, Implementation methods...
- Management of Engineering;
- Communication Skills; and
- Awareness of the Social Implications of Engineering



Process Flow

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Notes:

- McMaster B.Tech graduates are assigned Specific Examination Program and qualify for enrollment in the EIT.
- EIT program allows applicants with less than three years engineering experience to have the quality of their experience reviewed by the EIT unit, however applicants with substantial years of experience that also have acquired one year of Canadian engineering experience who met the academic requirements and passed the PPE will have their experience assessed for licensure and not as part of the EIT.



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Questions?

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