



Professional Engineers
and Geoscientists of BC

APEGBC

The Road to Professional Membership

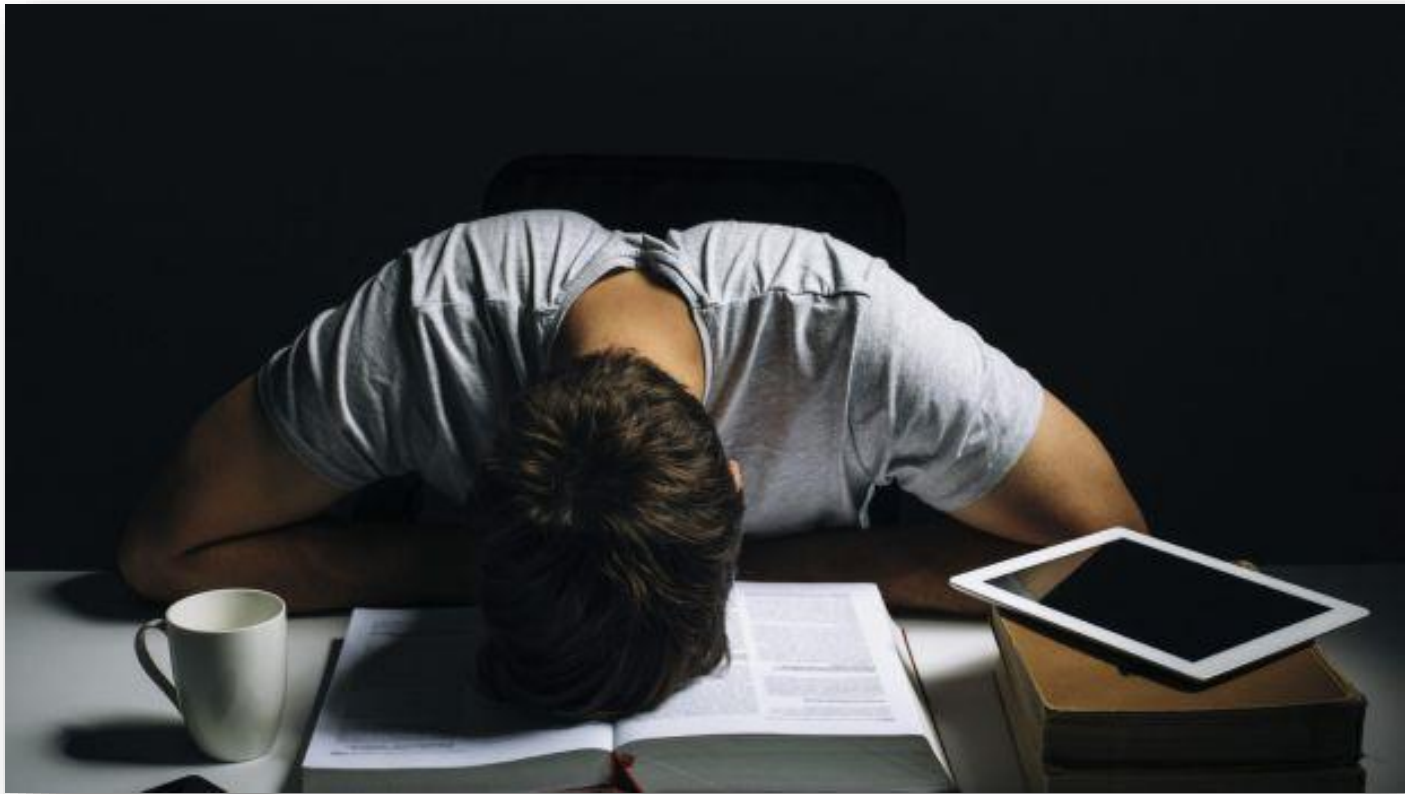
SFU
July 17, 2017
Jason Ong

Outline

- Why become a member
- The Engineer-in-Training (EIT) designation
- What you need to do to become a Professional Engineer (P.Eng.)

Your Objective...

- Survive... Study hard... Graduate...



Why Register with APEGBC?

- Right to title of P.Eng. or P.Geo.
- Ability to practice independently and take responsibility for own work
- Employer requirements
- Career progression and employer benefits
- Demand-side legislation for certain areas of practice
- Personal reasons



Engineer-in-Training

Engineer-in-Training (EIT) status is granted to individuals who meet:

- Academic requirements
- Are currently working toward their 4-year work experience requirement



Becoming an EIT

To Apply:

- Submit EIT Application Online
- Arrange to have your transcripts sent from your university
- Submit a certified proof of identification

The application fee can be waived if you are applying within 12 months of graduation

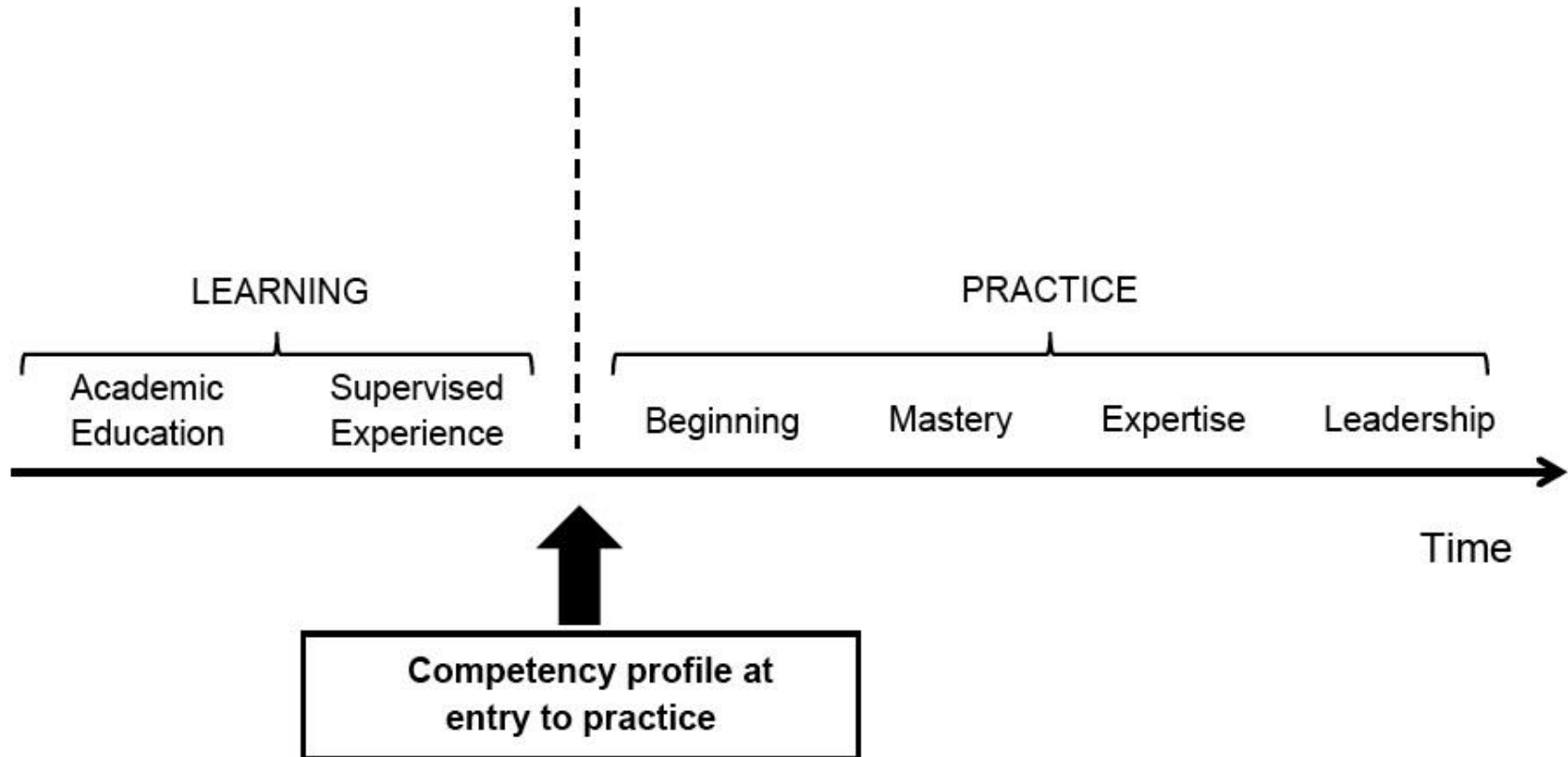
Professional Engineer P.Eng.

Professional Engineer (P.Eng.) registration is granted to individuals who meet:

- Academic requirement
- 4-year work experience requirement
- Professional practice exam requirement
- Good character requirement



Entry to Practice



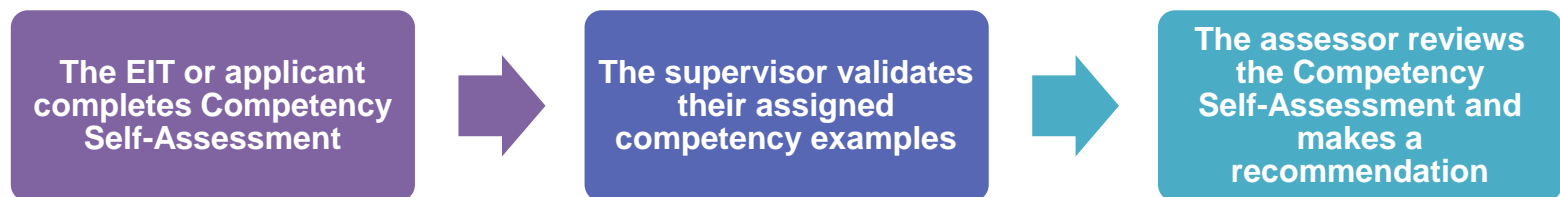
Experience Requirements

Start keeping a record of your work experience... Now

- One year must be in a Canadian environment or one deemed equivalent upon review.
- Pre-graduation experience (e.g., co-op, summer work) may count up to a maximum of one year.
- Experience as a certified technologist may qualify.
- Post-graduation experience is cumulative up to a maximum of two years (one year for M.Sc. and another for a Ph.D).

Competency Experience Reporting System

- Work experience is now submitted, validated and assessed online through the Competency Experience Reporting System
- Currently used by:
 - **Student Members** and **EITs**: To keep track of their progress as they gain the necessary knowledge and experience
 - **Applicants**: To complete and submit their work experience details and Competency Self Assessment online.
 - **Validators** and **Assessors**



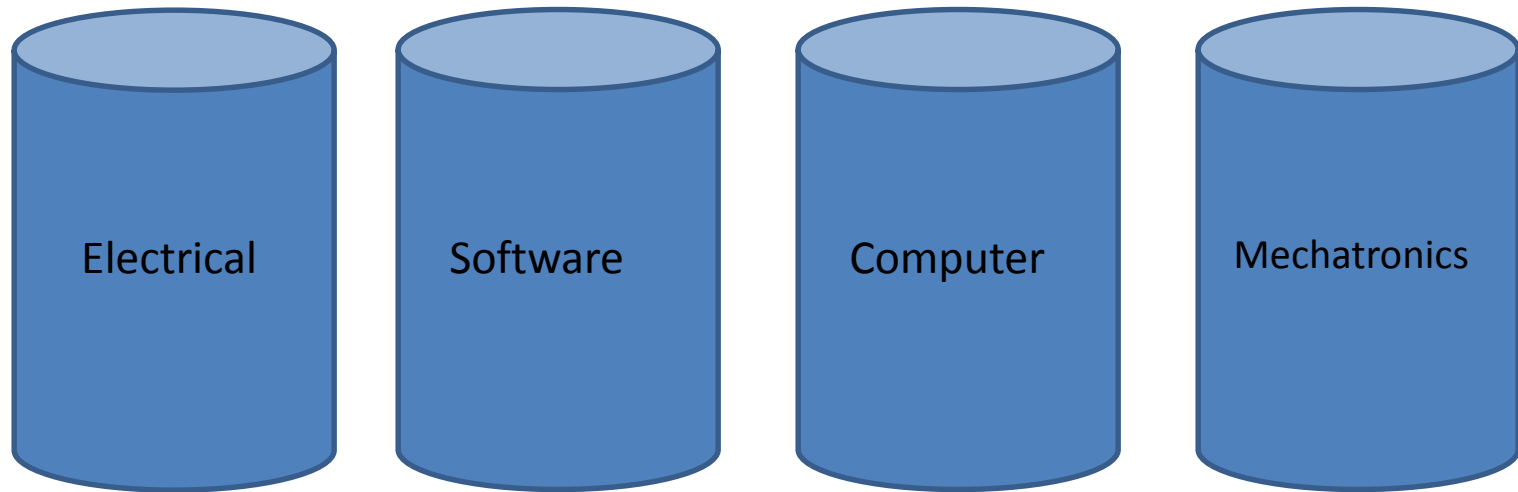
Competency Areas

1. Technical Competence
2. Communication
3. Project and Financial Management
4. Team Effectiveness
5. Professional Accountability
6. Social, Economic, Environmental and Sustainability
7. Personal Continuing Professional Development

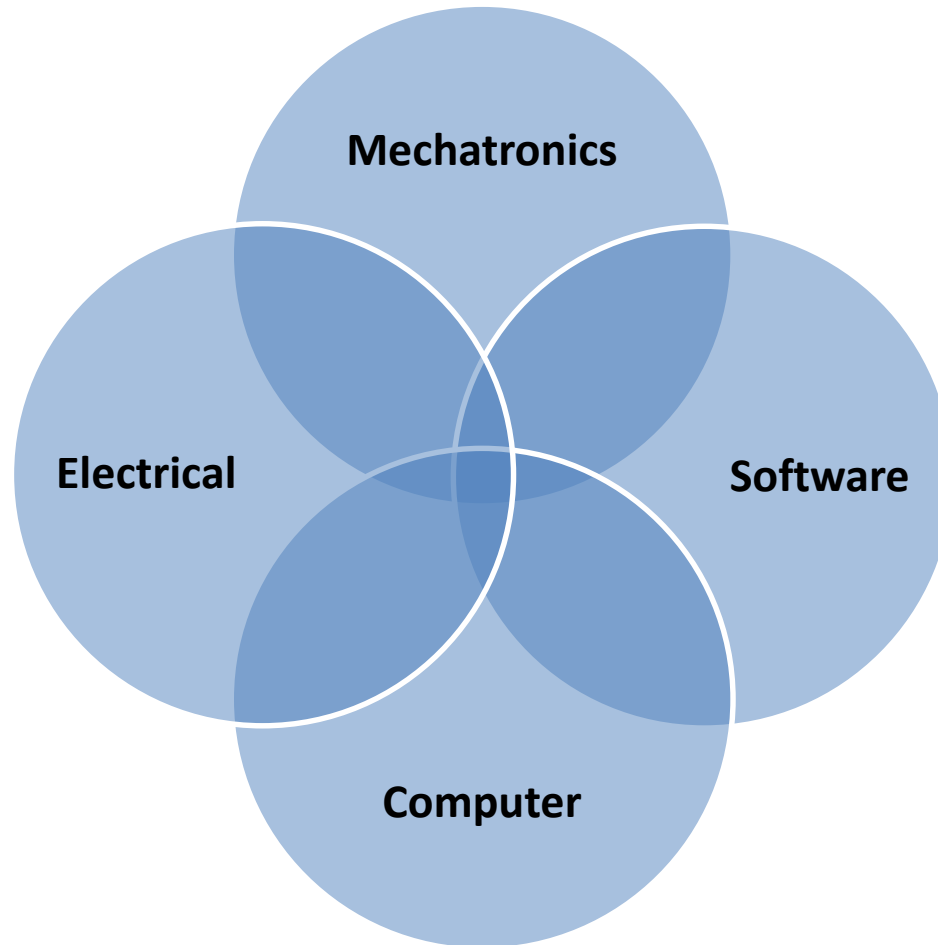
Technical Competence

- 1.1** Demonstrate knowledge of regulations, codes, standards, and safety - this includes local engineering procedures and practices as applicable
- 1.2** Demonstrate knowledge of materials, or operations as appropriate, project and design constraints, design to best fit the purpose or service intended and address inter-disciplinary impacts.
- 1.3** Analyze technical risks and offer solutions to mitigate the risks
- 1.4** Apply engineering knowledge to design solutions
- 1.5** Be able to understand solution techniques and independently verify the results.
- 1.6** Safety awareness: be aware of safety risks inherent in the design; and Demonstrate Safety Awareness – on-site and possible safety authorization/certificate as appropriate
- 1.7** Demonstrate understanding of systems as well as of components of systems
- 1.8** Exposure to all stages of the process/project life cycle from concept and feasibility analysis through implementation
- 1.9** Understand the concept of quality control during design and construction including independent design check and independent reviews of design, field checks and reviews
- 1.10** Transfer design intentions to drawings and sketches; Understand transmittal of design information to design documents.

“Traditional” Silos



Overlap in Disciplines



Maintain your Network



Validators

You need to have a minimum of FOUR people with direct, first-hand knowledge of your work, validate your experience examples

- Ideally, all references will be from P.Eng's
- At a minimum, you will need two P.Eng supervisors
- Colleagues, consultants, clients, can also act as validators
- At least one validator should be from a P.Eng supervisor in the same discipline of practice

Professional Engineering & Geoscience Practice in BC Online Seminar

Formerly known as the Law & Ethics Seminar

Teaches areas of law applicable to the practice of the professions, risk management and professional practice and ethics for engineers and geoscientists

Intended to be an interactive learning experience that can be accessed via desktop, laptop, tablet or mobile and is compatible with any browser



Professional Practice Exam (PPE)



Professional Engineers
and Geoscientists of BC

- Law & Ethics based exam
- Computer-Based Testing
- Offered five times per year (January, April, June, September, November)
- 110 multiple-choice questions to be completed within two and a half hours.
- An essay to be completed in one hour.



Questions?

For more information about the application process for P.Eng or P.Geo please visit: <https://www.apeg.bc.ca/Become-a-Member>

- Register@apeg.bc.ca
- 604-412-4856
- jong@apeg.bc.ca