

# PEO

# Professional Engineers Ontario

Etobicoke Chapter  
October 30, 2017



**Professional Engineers**  
Ontario



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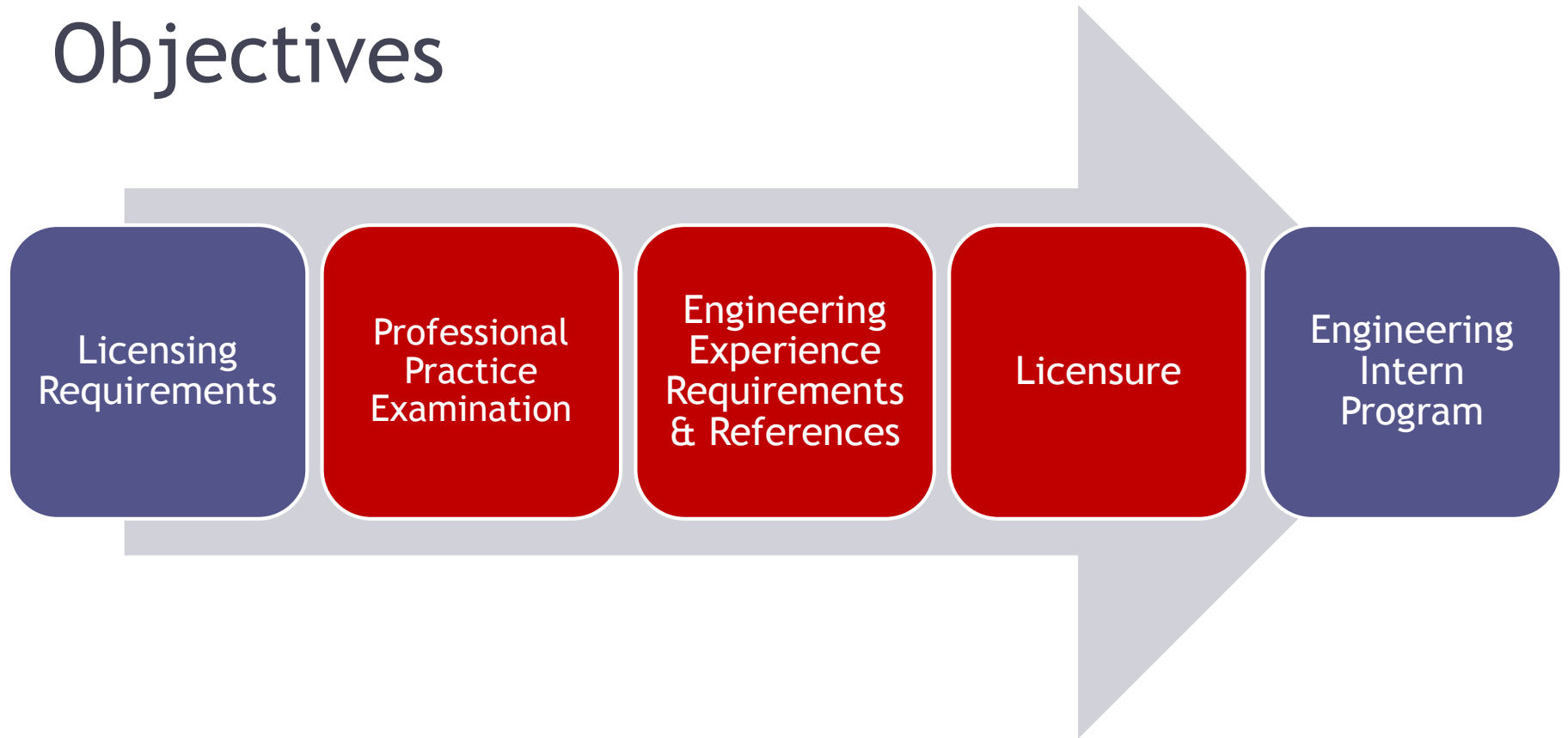
Tracey Caruana, P.Eng.  
Manager, Engineering Intern Programs  
[tcaruana@peo.on.ca](mailto:tcaruana@peo.on.ca)

Adeilton Ribeiro, P.Eng.  
EIT & Student Programs Coordinator  
[aribeiro@peo.on.ca](mailto:aribeiro@peo.on.ca)

[www.peo.on.ca](http://www.peo.on.ca)



# Objectives



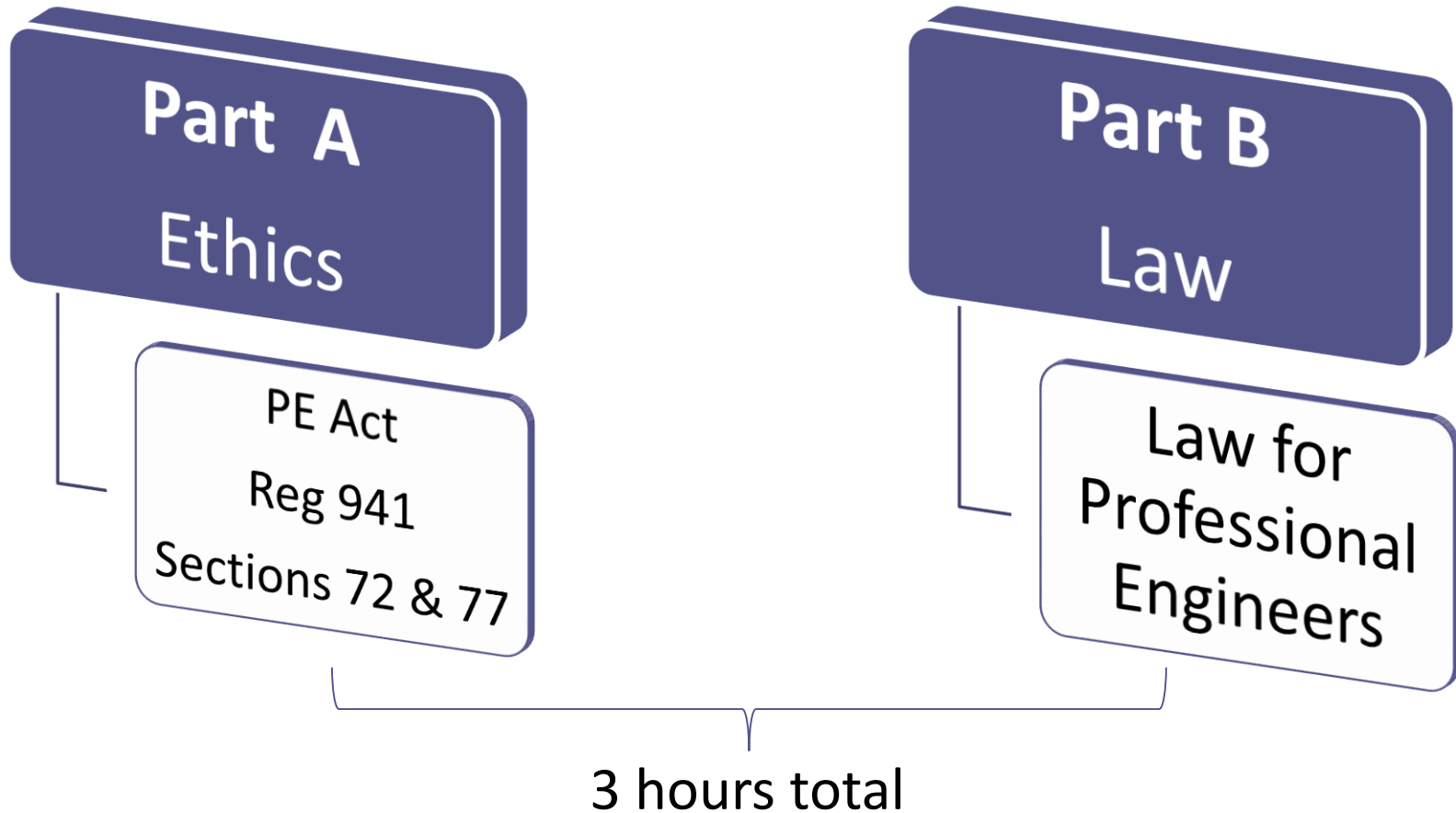


# Licensing Requirements

- Acceptable engineering education
- Professional Practice Examination
- Good character (i.e. no criminal record)
- 48 months acceptable engineering experience (12 months must be within a Canadian jurisdiction)
- References (all direct supervisors & a minimum of one P.Eng.)



# Professional Practice Examination



- April, August & December



# Pre-Graduation Experience

- After completing 50% of course work
- Eligible for up to 12 months credit for co-op, summer engineering employment, etc.
- Complete Pre-graduation experience form is different than post graduate experience
- Not eligible for the required 12 months of Canadian jurisdictional experience
- Related to undergrad program



## Engineering Master's or PhD

- Completed degrees - 12 months experience
- Same discipline or closely related to your bachelor of engineering degree
- Only one degree applies
- Additional experience for industrially applied research work. Up to 6 months for master's degree and 12 months for doctoral degree
- Not eligible for the required 12 months of Canadian jurisdictional experience



# Acceptable Engineering Experience

## *5 Required Elements:*

- **Application of Theory**
- **Practical Experience**
- **Management of Engineering**
- **Communication Skills**
- **Social Implications of Engineering**





# Application of Theory

- Link your academic knowledge to your work referring to specific engineering principles:
  - Planning, designing, composing, evaluating, advising, reporting, directing, supervising, etc.
- When performing your work, what engineering principles did you apply in order to perform such work?



## Practical Experience

- Link your work to limitations and/or restrictions referring to real world considerations:
  - Production parameters; Manufacturing tolerances; Relationship between product and equipment; Workflow; Schedule/Budget obstacles; Codes; Standards; Regulations; Etc.
- What considerations did you have to make due to real world conditions and how did these considerations impact/affect your engineering work?



# Management of Engineering

- Describe which management of engineering tools you used and how you used them:
  - Scheduling; Budgeting; Planning; Pricing; Crew Supervision; Quality Assurance/Control; Project Control; Risk Assessment; Etc.
- Being exposed generally to an engineering business environment. Identifying restrictions and evaluating alternative methods when performing your work is an asset.



# Communication Skills

Describe how you communicate your work:

- Written work
  - Correspondence design briefs; Technical reports - recommendation, inspection, etc.
- Oral Reports
  - Coworkers; Supervisors; Senior management; Clients, Regulatory authorities; Etc.
- How do you report your work?



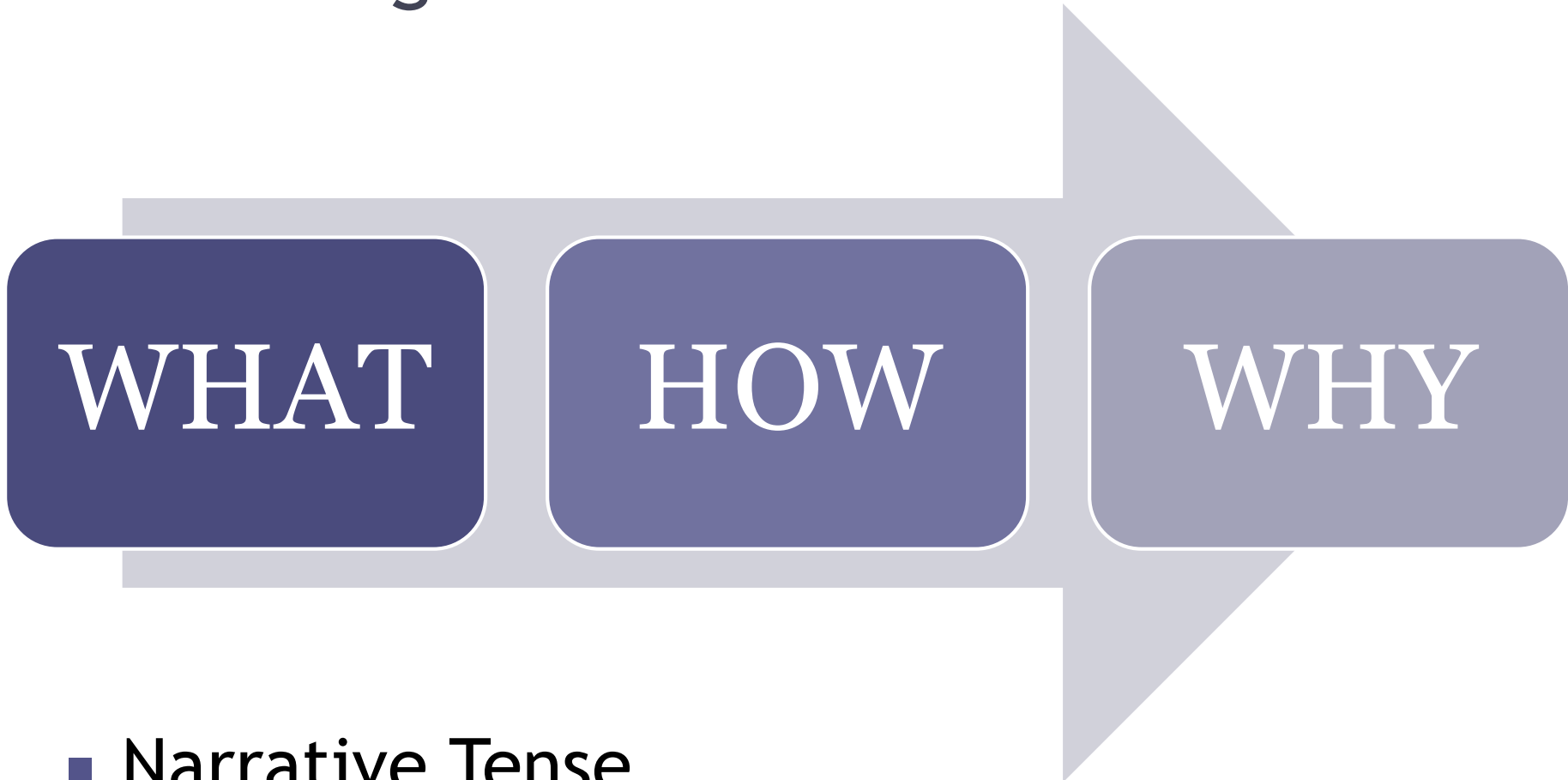
# Social Implications of Engineering

Link the work you have done towards the Public:

- Awareness of any social consequence
- Potential effects, both positive and negative
- Relationship between your Engineering work and the Public
- **Public safety is paramount**



# Describing Your Work



- Narrative Tense



## EXPERIENCE RECORD FORM

Current Date: \_\_\_\_\_

Name: _____	File: _____
Telephone (H): (____) _____	Email Address (H): _____
Telephone (B): (____) _____	Email Address (B): _____

ENGINEERING EXPERIENCE SUMMARY	
Company Name and Address (include Country)	
Length of Employment Start date (mm, yyyy) to end date (mm, yyyy)	
Position Title	
<b>Job Responsibilities and Engineering Duties</b>	
<i>Provide a brief description of your engineering duties.</i>	
<b>Application of Theory</b>	
<i>Describe how you have applied engineering fundamentals in analysis, design, synthesis, testing methods, implementation methods.</i>	
<b>Practical Experience</b>	
<i>Describe your practical engineering experience in relation to the function of components as part of a larger system, limitations of practical engineering, significance of time in the engineering process, knowledge and understanding of codes, standards, regulations and laws</i>	
<b>Management of Engineering</b>	
<i>Describe situations involving planning, scheduling, budgeting, supervision, project control, risk assessment.</i>	
<b>Communication Skills</b>	
<i>Describe how you communicated your engineering ideas through written work, oral presentations, presentations to the general public.</i>	
<b>Knowledge of the Social Implications of Engineering</b>	
<i>Describe situations involving the benefits of the engineering work to the public, safeguards, the relationship between the engineering activity and the public, the role of regulatory agencies.</i>	



# Staff Referral Interview

Required only when experience:

- **Doubtful**: cross discipline, selling/ marketing, patent, teaching, researching, project management, supervision, quality related work ... etc.
- **Improper**: technician, technologist, work that does not require application of engineering principles





# Referee Requirements

- Need your direct supervisor from each employer (job) covering the time of employment.
- **Minimum legal requirement:** one P. Eng. supervisor for one year
- **Ideal goal:** one direct P. Eng. supervisor plus another P. Eng. familiar with your work, per place of employment, over the entire 48 months.
- Supervisors must be **sufficiently familiar** with the details of the candidate's work



# EIT Program

- Annual Interim Review of work experience
- Use of EIT title for business cards and resumes
- Inclusion in PEO members directory
- Access to Engineering Dimensions magazine
- Participate in local Chapter's Events;
- Participate in EIT's seminars/webinars
- LAP Program (not all chapters)



## PEO Contacts

- Admissions Representative: file status, address changes, etc.
- Exam Centre: PPE & technical exams
  - [exams@peo.on.ca](mailto:exams@peo.on.ca)
- EIT Unit: quality of experience requirements, annual experience reviews & template, general questions
  - [eit@peo.on.ca](mailto:eit@peo.on.ca)
- Finance: fees
  - [financialservices@peo.on.ca](mailto:financialservices@peo.on.ca)



# THANK YOU!

## Q & A