

# Requirements for Registration as Professional Engineer In Chemical Engineering

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Registrar

# Professional Engineers Act

Establish the PE Board to carry out the following functions:

- registration of professional engineers
- regulate the qualifications and conduct of professional engineers
- regulate corporations, partnerships and limited liability partnerships which supply professional engineering services in Singapore.

# Professional Engineers Board

- Elected members – 6 persons
- Appointed members – 6 persons
- Ex-officio members – 3 persons
  - Commissioner of Building Control
  - President of the Institution of Engineers or his nominee
  - Registered architect from the Board of Architects
- Term of Board - not more than 3 years

# Professional Engineers Board



# Subsidiary Legislations

- Professional Engineers Board Rules
- Professional Engineers Rules
- Professional Engineers (Code of Professional Conduct and Ethics) Rules
- Professional Engineers (Approved Qualifications) Notification

( All are downloadable from PEB web site)

# Registration of Professional Engineers

PEs are Competent or Qualified Persons specified by :

- Building And Construction Authority
- Public Utilities Board
- Land Transport Authority
- Energy Market Authority
- National Environment Agency
- Ministry of Manpower
- Fire Safety & Shelter Department



# Registration of Professional Engineers

- Only registered PE with PC can engage in PE work
- Only registered PE with PC, allied professional, licensed corporation or limited liability partnership can supply or offer to supply PE services

# Scope of PE Registration

PEB registers PEs from the following branches:

- Civil
- Electrical
- Mechanical
- Chemical (wef 1 Jan 2017)

(Professional Engineers (Prescribed Branches Of Professional Engineering) Rules 2016)



# Registration Requirements

Applicants are required to:

- a) Obtain approved qualifications
- b) Sit and pass prescribed examinations
- c) Obtain 4 years of practical experience
- d) Attend the professional interview

# Approved Qualifications

Applicants must have a qualification specified in :

- Professional Engineers (Approved Qualifications) Notification – (See PEB website)

# Professional Engineers Registration Examination

- Written Examinations

Fundamentals of Engineering Examination (FEE)

(a) obtained approved degree or qualification

Practice of Professional Engineering Examination (PPE)

(a) Passed FEE

(b) Obtained 3 years of practical experience

(2 years 6 months wef 1 Jan 2017)

- Oral Examinations (wef 1 Jan 2017)

# Fundamentals of Engineering Examination

Subjects	Time Allocated	Format
<u>FEE Part 1</u> Core engineering subjects in civil/mechanical/electrical engineering	*3 hours & 10 mins (9.00 am – 12.10 pm)	<ul style="list-style-type: none"><li>• 40 Multiple Choice Questions (MCQ)</li></ul>
<u>FEE Part 2</u> Core/Elective subjects in civil/electrical/mechanical engineering	*3 hours & 10 minutes (2.00 pm – 5.10 pm)	<ul style="list-style-type: none"><li>• Answer 5 out of 9 questions (civil)</li><li>• Answer 5 out of 7 questions (electrical, mechanical)</li></ul>

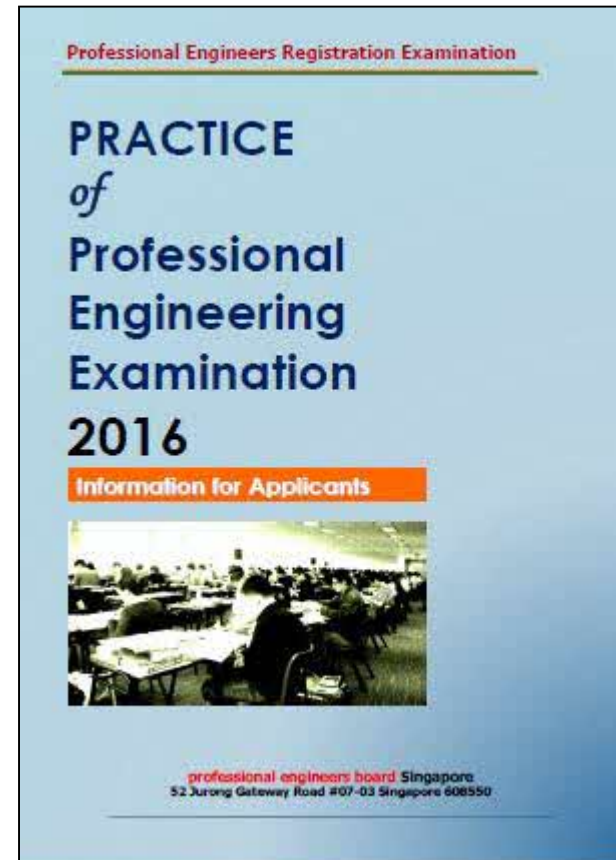
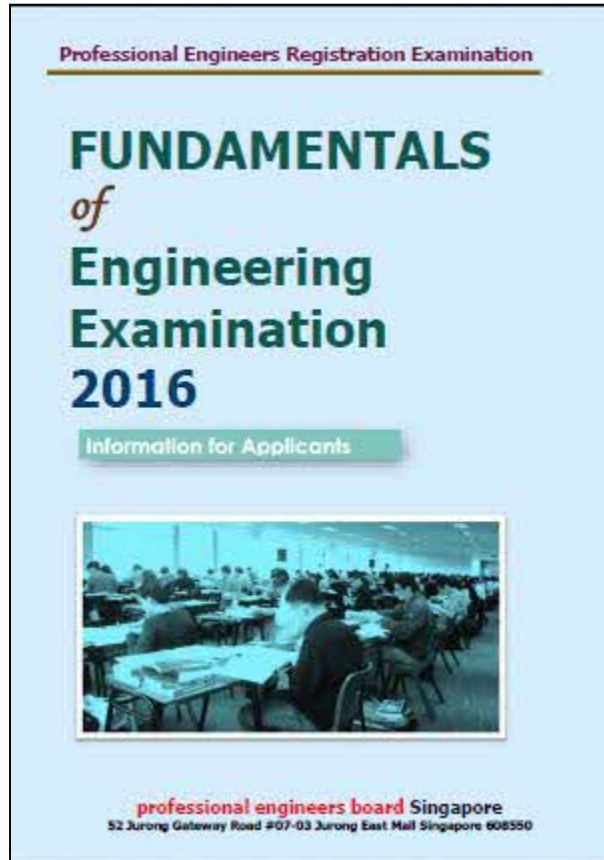
# Practice of Professional Engineering Examination

Subjects	Time Allocated	Format
<u>PPE Part 1</u> Common paper	2 hrs 10 mins (9.00 am – 11.10 am)	<ul style="list-style-type: none"><li>• Answer 10 compulsory Multiple Choice Questions</li><li>• Answer 3 out of 5 essay questions</li></ul>
<u>PPE Part 2</u> Civil/mechanical/electrical engineering	4 hrs 10 mins (1.00 pm – 5.10 pm)	<ul style="list-style-type: none"><li>• Answer 1 compulsory question plus 4 out of 7 questions</li></ul>

# Practice of Professional Engineering Examination



# Professional Engineers Registration Examination



# Introduction of Oral Exam (wef 1 Jan 2017)

- Qualifications specified in PE (Approved Qualifications) Notification 2005 obtained before 1 Dec 2005
- 25 years practical experience (from award date of qualification to time of application)
- Oral exam
- Professional interview

Oral Examination: seeks to test and establish the applicant's knowledge, expertise, experience and achievements in his branch of professional engineering practice



# Registration Requirements For PE (Chemical)

- Registration in chemical engineering starts with effect from 1 Jan 2017
  - Professional Engineers (Prescribed Branches Of Professional Engineering) Rules 2016
- Applicants who submits an application **within 6 months of 1 Jan 2017** are required to:
  - a) Obtain approved qualifications
    - PE (Approved Qualifications) (Amendment) Notification 2016
  - b) **Exempted** from prescribed examinations
  - c) Obtain **5** ( instead of 4) years of practical experience
  - d) Attend the professional interview
    - Professional Engineers(Qualification For Registration As Professional Engineers) (Exemption) Order 2016

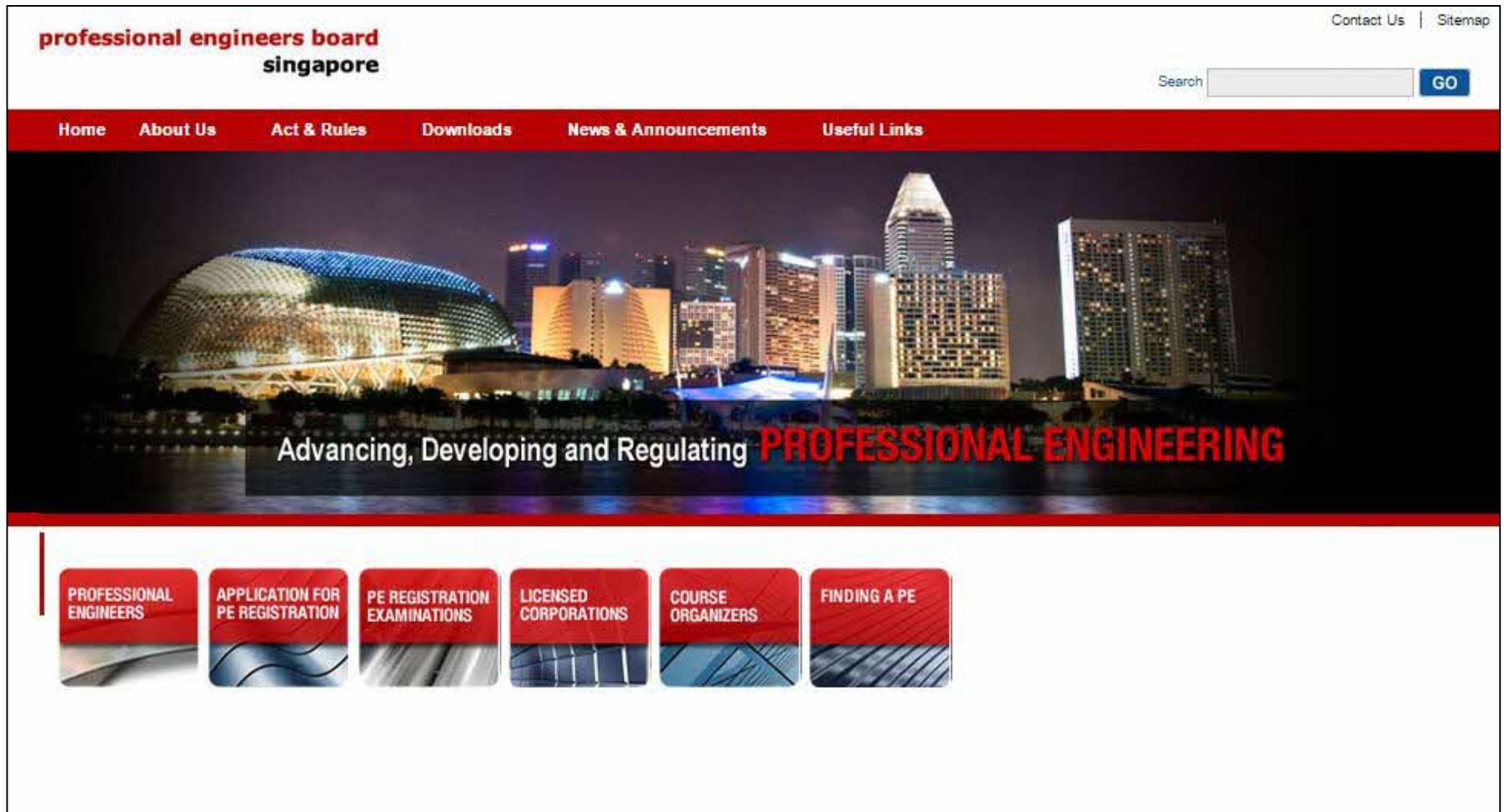
# Professional Interview

Summary of Post-Graduate Professional Experience

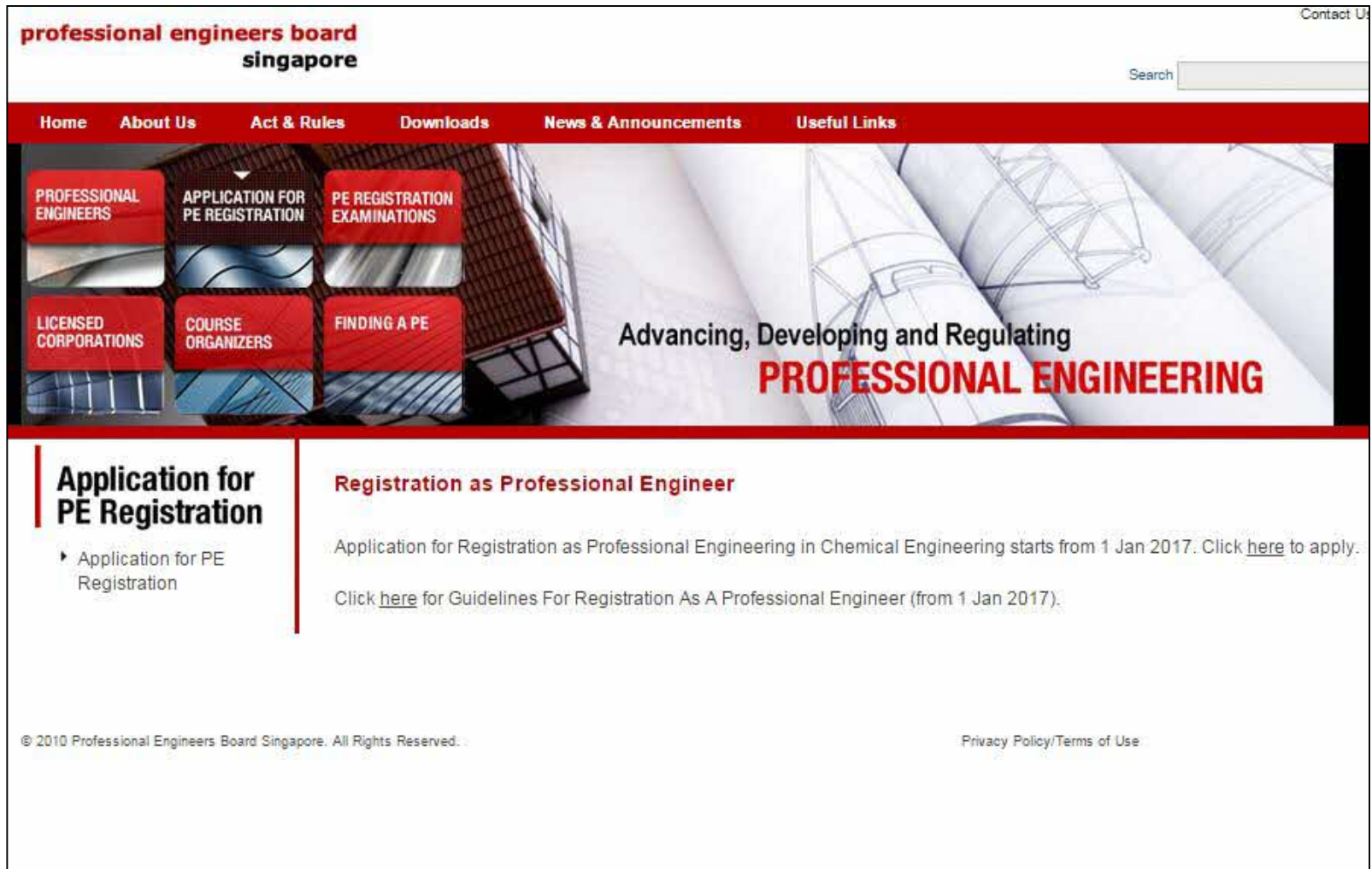
Report on Post Graduate Engineering Experience

Professional Interview – 45 to 60 mins

# Professional Engineers Registration Examination



# Professional Engineers Registration Examination



The screenshot shows the homepage of the Professional Engineers Board Singapore. The header includes the organization's name, a search bar, and a navigation menu. A central banner features a grid of service links and a large graphic of architectural blueprints with the text 'Advancing, Developing and Regulating PROFESSIONAL ENGINEERING'. Below the banner, there are two main content areas: 'Application for PE Registration' with a sub-link, and 'Registration as Professional Engineer' with two paragraphs of text and links. The footer contains copyright information and a link to the Privacy Policy/Terms of Use.

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**PROFESSIONAL ENGINEERING**

**Application for PE Registration**

- ▶ Application for PE Registration

**Registration as Professional Engineer**

Application for Registration as Professional Engineering in Chemical Engineering starts from 1 Jan 2017. Click [here](#) to apply.

Click [here](#) for Guidelines For Registration As A Professional Engineer (from 1 Jan 2017).

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# Guidelines For Registration As A Professional Engineer

professional engineers board singapore

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## **GUIDELINES FOR REGISTRATION AS A PROFESSIONAL ENGINEER – (WITH EFFECT FROM 1 JAN 2017)**

1. Professional Engineers Board (PEB) registers professional engineers in prescribed branches of engineering, namely civil engineering, mechanical engineering, electrical engineering or [chemical engineering](#) (See Note 1 below). A person who meets the following requirements may apply for registration as a professional engineer with PEB in any one of the prescribed branches of engineering.
  - a) An applicant is required to:
    - i) hold any degree, or qualification listed in the Professional Engineers (Approved Qualifications) Notification; or
    - ii) satisfy the Board that he is otherwise qualified by having proper and recognised academic qualifications in engineering and who satisfies such conditions prescribed by the Board.
  - b) After obtaining the approved qualifications, the applicant has acquired not less than four years of practical experience in such professional engineering work and at such level of responsibility as to be sufficiently competent for registration as a professional engineer.

# Guidelines For Registration As A Professional Engineer

Section 17.2 Major areas in chemical engineering (subject to revisions) such as:

- process safety
- process design and control
- fire and explosion prevention and mitigation
- quantitative risk assessment
- industrial production and plant operation
- environmental protection and pollution control
- research and development related to chemical engineering

Personal Particulars

Salutation : \* 

Mr

Full Name : \* (as shown on passport)

Gender : \* 

-Select-

Date of Birth : \* 

dd

mm

yyyy

Age :

Place of Birth : \* 

-Select-

Nationality : \* 

-Select-

Race : \* 

-Select-

NRIC/FIN/Passport Type : \* 

-Select-

NRIC/FIN/Passport No. : \*

Contact No and Email Address

Only one set of data input for each field is required

Residential Phone No. : \*

Mobile Phone No. : \*

Office Phone No. : \*

Email Address : \*

Residential Address

Block/House No. : \*

Street Name : \*

Unit No. : \*

Country : \* 

-Select-

Postal/Zip Code : \*

Employer Address

Employer Name :

Block/House No :

Street Name :

Unit No. :

Country : 

-Select-

Postal/Zip Code :



Personal Particulars	Contact Information	Employment Information	Summary of Education	Other Requirements	Preview Application	e-Payment	Complete
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Employment Information

Employment Status : \* Employed

Employer Type : \* ☐ Private Sector ☐ Public Sector

Personal Particulars	Contact Information	Employment Information	Summary of Education	Other Requirements	Preview Application	e-Payment	Complete
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Summary of Education

Qualification 1\*

Name of University/College/Institution: \*

Address of University/College/Institution Studied: \*

Qualification Awarded: \*

Branch of Engineering: \*

Attendance:

From: \* mm yyyy

To: \* mm yyyy

Duration:  (no. of years)

Program Duration: \* ---Select---

Types of Program: ---Select---

Date of Award: \* dd mm yyyy

Remark:

ADD

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NEXT



## Apply for PE

Personal Particulars	Contact Information	Employment Information	Summary of Education	Other Requirements	Preview Application	e-Payment	Complete
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### Other Requirements (all fields are mandatory)

I hereby apply to have my name placed in the Registrar of the Professional Engineers Board in the branch of Chemical engineering. I have  years  months of post-graduate professional experience as indicated in the summary of post-graduate professional experience.

Specialization : \*

- |   |   |
|---|---|
| <input type="checkbox"/> Process safety                               | <input type="checkbox"/> Quantitative Risk Assessment                   |
| <input type="checkbox"/> Process Design and Control                   | <input type="checkbox"/> Industrial Production and Plant Operation      |
| <input type="checkbox"/> Fire and Explosion Prevention and Mitigation | <input type="checkbox"/> Environmental Protection and Pollution Control |
|   | <input type="checkbox"/> Research and Development Related to Chemical   |

Others :

Please download the following files, fill in the required information and submit together with your application to PEB.

Download [Summary of Post-Graduate Professional Experience](#)

Download [Verification of Academic Record](#) (if there is new update on your qualification)

Download [Certificate of Good Conduct](#)

Download [Checklist for PE Registration Submission](#)

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NEXT

Declaration :

I have completed my application to register as a professional engineer.

Criminal offence:

☐ I have not been convicted of a criminal offence in a Court of law and / or knowingly been investigated in connection with a criminal offence in any country

☐ I have been convicted of a criminal offence in a Court of law and / or knowingly been investigated in connection with a criminal offence in any country.

I hereby declare that if I am registered, I shall be personally in charge of all the projects for which I should certify, stamp and sign all professional engineering work reports, documents and if necessary submit plans to the regulatory authorities. I intend to perform my duties and discharge my responsibilities in compliance with:

- a) The Professional Engineers Act and Rules; and
- b) All Acts and Regulations in my engineering practice

I hereby authorize the Professional Engineers Board to seek verification on the information submitted in any manner and by any means as it deems fit and proper.

[EDIT DETAILS](#)

[SUBMIT](#)

# Registration Requirements For PE (Chemical)

- Registration in chemical engineering starts with effect from 1 Jan 2017
- Applicants who submits an application **within 6 months of 1 Jan 2017** are required to:
  - a) Obtain approved qualifications
  - b) Obtain **5** years of practical experience
  - c) Attend the professional interview

# Certificate of Registration

