

(A) About the Institution of Engineering Designers, United Kingdom

[Website: www.ied.org.uk]

Founded: **1945**

IED Membership: Membership of the IED is open to all those who study, practice, manage or educate in engineering and technological product design. Suitably qualified and experienced members of the Institution can apply for registration with the **Engineering Council** and the **Society for the Environment**.

Registration: Those accepted into membership may apply to be registered with the Engineering Council at Chartered Engineer (**CEng**), Incorporated Engineer (**IEng**) or Engineering Technician (**EngTech**) level, depending on the level of academic qualification held and competencies met. Suitably qualified and experienced members can also apply to become Chartered Environmentalists (**CEnv**).

[Website: www.engc.org.uk]

(B) About the Society of Professional Engineers, United Kingdom

[Website: www.professionalengineers-uk.org]

The **Society of Professional Engineers** was founded on the 27 October **1969** by a number of Corporate Members of the **Society of Engineers** which is the third oldest Engineering Body in the United Kingdom being established in **1854**.

The Society of Professional Engineers, (SPE) maintains a register of professional Engineers who are entitled to use the designation (**P.Eng.**), incorporated in the Society’s Memorandum & Articles as authorised by the Secretary of State of the Department of Trade & Industry.

The SPE has reciprocal arrangements with the Societe National des Ingenieurs Professionnels de France, the **National Society of Professional Engineers (USA)**, Bundersverband der Berufingenieure Deutschlands (BID), Hong Kong Institution of Construction Engineers Ltd, and **The Association of Building Engineers, UK**.

(C) About the University of Southern Queensland, Australia

[Website: www.usq.edu.au] [Email: international@usq.edu.au]

- Founded : 1967
- Engineering Degrees offered:
 - Associate Degree of Engineering
 - Bachelor of Engineering Technology
 - **Bachelor of Engineering (in 10 different Majors)**
- **BEng** Accredited by **Engineers Australia** as Professional Engineers.
- The major study areas in the USQ Bachelor of Engineering are:
 - Agricultural Engineering
 - **Civil Engineering**
 - Computer Systems Engineering
 - **Electrical and Electronic Engineering**
 - Environmental Engineering
 - Master of Engineering
 - Engineering Doctorates
 - Instrumentation and Control Engineering
 - **Mechanical Engineering**
 - Mechatronic Engineering
 - Power Engineering

(D) About Singapore Institute of Engineering Technologists (SIET)

[Website: www.siet.org.sg]

SIET was founded in **1980** as a national professional body to cater for the interests of Polytechnic and VITB (now ITE) engineering and Technology graduates in Singapore.

SIET revised Professional Examinations are held in three main Engineering Disciplines: **Civil, Electrical and Mechanical** at three broad levels/standard: **Level 1** (Associate Membership → AMSIET), **Level 2** (Membership → MSIET) and **Level 3** (Fellowship → FSIET).

SIET Certification Scheme is broadly divided into three levels:

- Certified Engineering Associate (**CertEA**)
- Certified Engineering Technologist (**CertET**)
- Certified Technical Specialist (**CertTS**)

Certified Fellows of SIET (FSIET, CertTS) can be considered for registration as **PEng(UK)** of The Society of Professional Engineers, United Kingdom.

[website: www.professionalengineers-uk.org] and registration as **World Certified Specialist Professional (WCSP)** of the World Certification Institute, USA.

[website: www.worldcertification.org]

(E) About the Institution of Certified Engineers, Singapore (ICES)

[Website: www.siet.org.sg/AboutICES.php]

The **Institution of Certified Engineers**, Singapore was formed in **1973** to serve the Specialist Engineers in Steam or Internal Combustion Engines. Fellows and Members are **Certified Engineers**, qualified in accordance with the Factories (Certificate of Competency- Examinations) Regulations.

*Today, **Operations Engineers (OE)** are responsible for providing light, heat, climate control, power or other utilities for buildings, industrial processes and thermal electric generating stations. They operate and maintain steam boilers and related mechanical equipment, such as pumps, gas compressors, generators, motors, steam turbines, air conditioning systems, heat exchangers and refrigeration equipment.*

*The **Society of Operations Engineers (SOE)** is an engineering professional organization in the United Kingdom, formed by the merger of following three bodies in 2000: **Institute of Road Transport Engineers (IRTE)**, **Institution of Plant Engineers (IPlantE)**, and **Bureau of Engineer Surveyors (BES)**. [website: www.soe.org.uk]*

<i>Joint ICES-SIET Routes & Requirements (2013)</i>	
Route	Requirements
1. Degree Route	<ul style="list-style-type: none"> • A Recognized First Degree in Engineering. • Min. Age: > 30 years • Experience: > 5 years • Professional Review Report (at least 3000 words) + Professional Interview (Oral Presentation : 15 minutes; Interview: 30 minutes)
2. Professional Exams Route	<ul style="list-style-type: none"> • A Recognized Diploma in Engineering. • Min. Age : > 30 years • Experience : > 5 years • Passed Joint ICES – SIET Exams (Level 3) • Professional Review Report (at least 3000 words) + Professional Interview (Oral Presentation : 15 minutes; Interview : 30 minutes)
3. Technical Report Route	<ul style="list-style-type: none"> • Min. Age : > 40 years. • Experience : > 15 years. • Two Technical Reports (at least 5000 words each). • Professional Interview (Oral Presentation : 15 minutes; Interview : 30 minutes)
4. Direct Entry Route	<ul style="list-style-type: none"> • By Mutual Reciprocal Recognitions (MRRs), e.g. PEng(UK), CEng(UK). • Professional Interview (Optional)

Joint ICES – SIET Level 3 (Fellowship) Examination

[2013 version]

Option A – By Written Exam (6 Subjects)(3 –hour per subject)

[Exam Fee per subject per sitting: S\$80][2013]

1. **Professional Practice** (including Engineering Ethics & Safety)@
 2. **Quantitative Methods in Management** (OR/MS)
 3. **Engineering Economics**
 4. **3 Technical Subjects** depending on the chosen area of specialization.
- Preparation for SIET Professional Examination can be done by face-to-face tutorials at SIET – Approved Training Centres or by Self-directed learning.
[@incorporating the SIET – Test of Professional Competency for registration as Certified Technical Specialist (CertTS)]

Option B – By Design (6-hours open-book Exam)

[Exam Fee per Design Paper per sitting : S\$160][2013]

The following main disciplines will be available:

- **Civil Engineering Design**