Professional Engineers Board Singapore



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PRESIDENT AND MEMBERS OF THE BOARD

President



Er. Lim Peng Hong

Members of the Board















Er. Ho See Fong (From January 2024) Er. Jee Yi Yng Er. Kng Meng Hwee







Er. Dr Lee Jim Yang Er. Lee Zi Du (From January 2024) Er. Dr Liew Jat Yuen, Richard

Members of the Board (Cont'd)







Er. Ng Beow Suan (From January 2024) Er. Ng Yek Meng (From January 2020 to December 2023)

From left to right

Er. Pong Mew Lan, Marina (From January 2024)







From left to right

Er. Sivakumaran Murugesu (From January 2020 to December 2023) Er. Teo Yann Er. Thanabal s/o Kaliannan







From left to right

Er. Dr Wong Liang Heng, Johnny Er. Yogeeswaran s/o Sivasithamparam (From October 2022 to December 2023) Ar. Khairudin SAHAROM

Registrar



Er. Foo Siang Jeok

MISSION, KEY OBJECTIVES AND FUNCTIONS OF THE BOARD

Mission

To safeguard life, property, and welfare of the public by setting and maintaining high standards for registering professional engineers, and by regulating and advancing the practice of professional engineering.

Key Objectives

- To maintain an internationally acceptable standard of assessment which emphasizes
 quality academic education, examination, and practical experience that ensures only
 competent individuals are accepted for registration as professional engineers.
- To maintain a process that ensures professional engineers demonstrate a high standard of professional development, and conduct and ethics that meet the expectations of clients and consumers.
- To develop responsible self-governance of the profession through judicious administration of the Act and Rules on professional conduct and ethics.
- To coordinate and facilitate cross-border mobility of qualified professional engineers.

Functions

- To keep and maintain a register of professional engineers, a register of practitioners and a register of licensees.
- To hold or arrange for the holding of such examinations as the Board considers necessary for the purpose of enabling persons to qualify for registration under the Professional Engineers Act.
- To approve or reject applications for registration under the Professional Engineers
 Act or to approve any such applications subject to such restrictions as it may think fit
 to impose.
- To establish and maintain standards of professional conduct and ethics of the engineering profession.
- To promote learning and education in connection with engineering, either alone or in conjunction with any other professional body.
- To hear and determine disputes relating to professional conduct or ethics of professional engineers or to appoint a committee to hear and determine those disputes.
- To license corporations, partnerships and limited liability partnerships which supply
 professional engineering services relating to any of the prescribed branches of
 professional engineering work in Singapore.

REGISTRATION AND LICENSING

Registration of Professional Engineers

In FY2023, the Board conducted 34 professional interview sessions for 138 applicants while a total of 103 candidates were registered as professional engineers during the year. Table 1 shows the number of new professional engineers registered in the last 5 years.

Table 1: Number of Newly-Registered Professional Engineers by FY2023

Draugh of Engineering	No. of Professional Engineers Registered				
Branch of Engineering	2019	2020	2021	2022	2023
Civil	60	40	36	25	38
Electrical	26	11	32	31	33
Mechanical	16	19	15	11	31
Chemical	1	1	0	1	1
TOTAL	103	71	83	68	103

As of 31 March 2024, there was a total of 4496 professional engineers on the register of professional engineers and a total of 2570 (57.2%) professional engineers on the annual register of practitioners. Table 2 shows the breakdown of the number of registered professional engineers and practitioners in the 4 main branches of engineering (namely, civil, chemical, electrical and mechanical).

Table 2: Number of Registered Professional Engineers as at 31 March 2024

Branch of Engineering		of Registered onal Engineers	No. of Practitioners (Professional Engineers in Each Branch with Practicing Certificates)		
gg	Number	Percent (%)	Number	Percent (%)	
Civil & Structural	2183	48.5%	1357	52.8%	
Electrical	1052	23.4%	638	24.8%	
Mechanical	1019	22.7%	525	20.4%	
Chemical	163	3.6%	49	1.9%	
Others ¹	79	1.8%	1	0.1%	
TOTAL	4496	100%	2570	100%	

¹ Others include Aeronautical, Electronic, Industrial, Information Technology, Manufacturing, Marine, Naval Architecture and Production.

Registration of Specialist Professional Engineers

As at 31 March 2024, there was a total of 477 professional engineers on the register of specialist professional engineers and a total of 393 (82.4%) of them had practicing certificates. Table 3 shows the breakdown of the number of registered specialist professional engineers.

Table 3: Number of Registered Specialist Professional Engineers as at 31 March 2024

Specialised Branch of Engineering	Total No. of Registered Specialist Professional Engineers		No. of Specialist Professional Engineers in Each Branch with Practicing Certificates		
	Number	Percent (%)	Number	Percent (%)	
Geotechnical	131	27.4%	113	28.8%	
Amusement Ride	19	4%	12	3.1%	
Lift and escalator	114	23.9%	100	25.4%	
Crane	63	13.2%	47	11.9%	
Access Platform	69	14.5%	55	14%	
Pressure Vessel	51	10.7%	38	9.7%	
Protective Security	14	2.9%	13	3.3%	
Tunnelling	16	3.4%	15	3.8%	
TOTAL	TOTAL 477		393	100%	

Licensing of Corporations and Partnerships

As of 31 March 2024, there was a total of 274 licensed corporations, partnerships and limited liability partnerships on the Board's register of licensees. Table 4 shows the breakdown of the licensees.

Table 4: Number of Licensees as at 31 March 2024

Type of Corporations/Partnerships	No. of licensees
Limited corporations	252
Unlimited corporations	3
Multi-discipline/Limited liability partnerships	19
TOTAL	274

DISCIPLINARY INQUIRIES

In FY2023, Investigation Committees appointed by the Board completed inquiries for 3 complaint cases against professional engineers. Following the inquiries, 2 of the cases were referred to Disciplinary Committees while a warning letter was issued to the remaining PE.

Disciplinary Committees appointed by the Board completed 3 formal inquiries in FY2023. At completion of the inquiries, all 3 professional engineers were ordered to pay financial penalties, with one of them also given a censure. The financial penalties ordered ranged from \$2,500 - \$12,000.

ACTIVITIES OF THE BOARD

Board Meetings

The Board held a total of 11 meetings in FY2023.

Professional Engineers Registration Examinations

The Examination Committee of the Board, chaired by Board member Er. Dr Liew Jat Yuen, Richard, held 3 meetings in FY2023 and oversaw the conduct of the Practice of Professional Engineering Examination (PPE) and the Fundamentals of Engineering Examination (FEE). A total of 129 undergraduates/recent graduates sat for the Fundamentals of Engineering Examination conducted by the universities.

Table 5: Results of FEE 2023

	FEE 2023			
Branch of Engineering	No. of Candidates	No. of Passes	Pass Rate	
Chemical	5	1	20.0%	
Civil	342	140	40.9%	
Electrical	182	64	35.2%	
Mechanical	110	30	27.3%	
Overall	639	235	36.8%	

Table 6: Results of PPE 2023

	PPE 2023			
Branch of Engineering	No. of Candidates	No. of Passes	Pass Rate	
Chemical	2	1	50.0%	
Civil	319	143	44.8%	
Electrical	129	66	51.2%	
Mechanical	98	40	40.8%	
Overall	548	250	45.6%	

ASEAN Mutual Recognition Arrangement on Engineering Services

The Board had been involved in the implementation of the ASEAN Mutual Recognition Arrangement on Engineering Services. In this regard, the ASEAN Chartered Professional Engineer (ACPE) Monitoring Committee Singapore, which had been authorised by the Board, continued to process applications submitted by professional engineers for registration as ACPEs. For FY2023, 20 applications for registration as ACPEs were approved. As at 31 March 2024 the number of ACPEs from Singapore on the ACPE Register is 344. PEB had also authorised 1 ACPE (from Malaysia) as Registered Foreign Professional Engineer (RFPE).

PEB Day of Dedication 2023



Congratulations to our newly registered Professional Engineers who received their registration certificate at the PEB Day of Dedication on 9 Nov 2023

At the annual Day of Dedication (DOD) on 9 November 2023, we proudly introduced 98 newly registered PEs across various engineering branches, including Chemical, Civil, Electrical and Mechanical Engineering. Over 270 PEs and guests attended the ceremony, where the PEs pledged to dedicate their service to society and uphold high standards of practice in professional engineering. Joining them as Guest of Honour was Ms Indranee Rajah, Minister in the Prime Minister's Office and Second Minister for Finance and National Development.

We also welcome 15 new Specialist PEs specialising in Amusement Ride engineering, Crane engineering, Geotechnical engineering, Lift and Escalator engineering and Tunnelling engineering, and 19 new ASEAN Chartered PEs (ACPEs).

This year's theme, "RESILIENCE - the foundation for Sustainable Growth", focus on designing and building resilience into our built environment and infrastructure to achieve sustainable growth. In her speech, Minister Indranee Rajah outlined the importance of resilience engineering to enable us to overcome the adverse effects of climate change, and to thrive in the face of these disruptive changes.

Honouring PEB Innovative Professional Engineers

Two Professional Engineers, Er. Wong Seng and Er. Ng Choon Yeang, were each presented with the Innovative Professional Engineer Award in recognition of their outstanding achievements and creative use of transformative technologies in the engineering profession.



Er. Wong Seng receiving the Innovative Professional Engineer Award from Minister Indranee Rajah

Er. Wong Seng is being recognised for his pioneering innovation in using a composite shear wall system for the concrete prefabricated prefinished volumetric construction (or PPVC) technology. The lightweight PPVC modules lead to significant cost savings and construction productivity with more efficient transportation and installation, better site safety and environmental outcomes for the industry.

Another Innovative PE award was presented to Er. Ng Choon Yeang for spearheading the study, testing and implementation of Steel Fibre Reinforced Concrete (SFRC) for underground tunnels in Singapore for the first time on a Downtown Line 3 project. The use of SFRC significantly improved construction productivity and long-term durability of the tunnel structures.

PEB Gold Medals

Ten graduates from the National University of Singapore, Nanyang Technological University and Singapore Institute of Technology undergraduate engineering programmes were presented with the PEB Gold Medal Awards in recognition of their outstanding engineering academic achievements.

Green.Gov.SG Sustainability Initiatives

PEB has contributed to the government's green and sustainability initiatives by including sustainability into capability building and professional development for the engineering community. This year's Day of Dedication event featured a keynote presentation on "Coastal Adaption in Singapore" to share the exciting plans to protect and redevelop our coastal areas and to encourage our new PEs to equip themselves to contribute to the upcoming coastal protection works.

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