

## THE HEART & VOICE OF ENGINEERS IN SINGAPORE

### THE INSTITUTION OF ENGINEERS, SINGAPORE

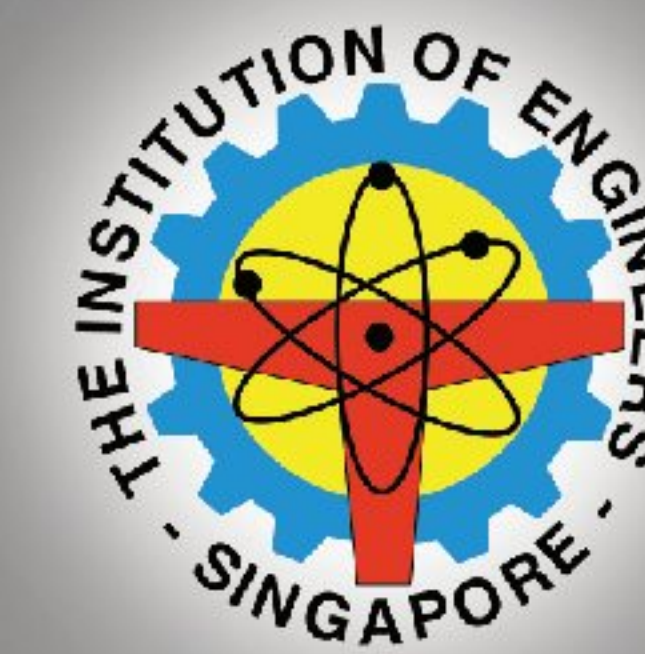
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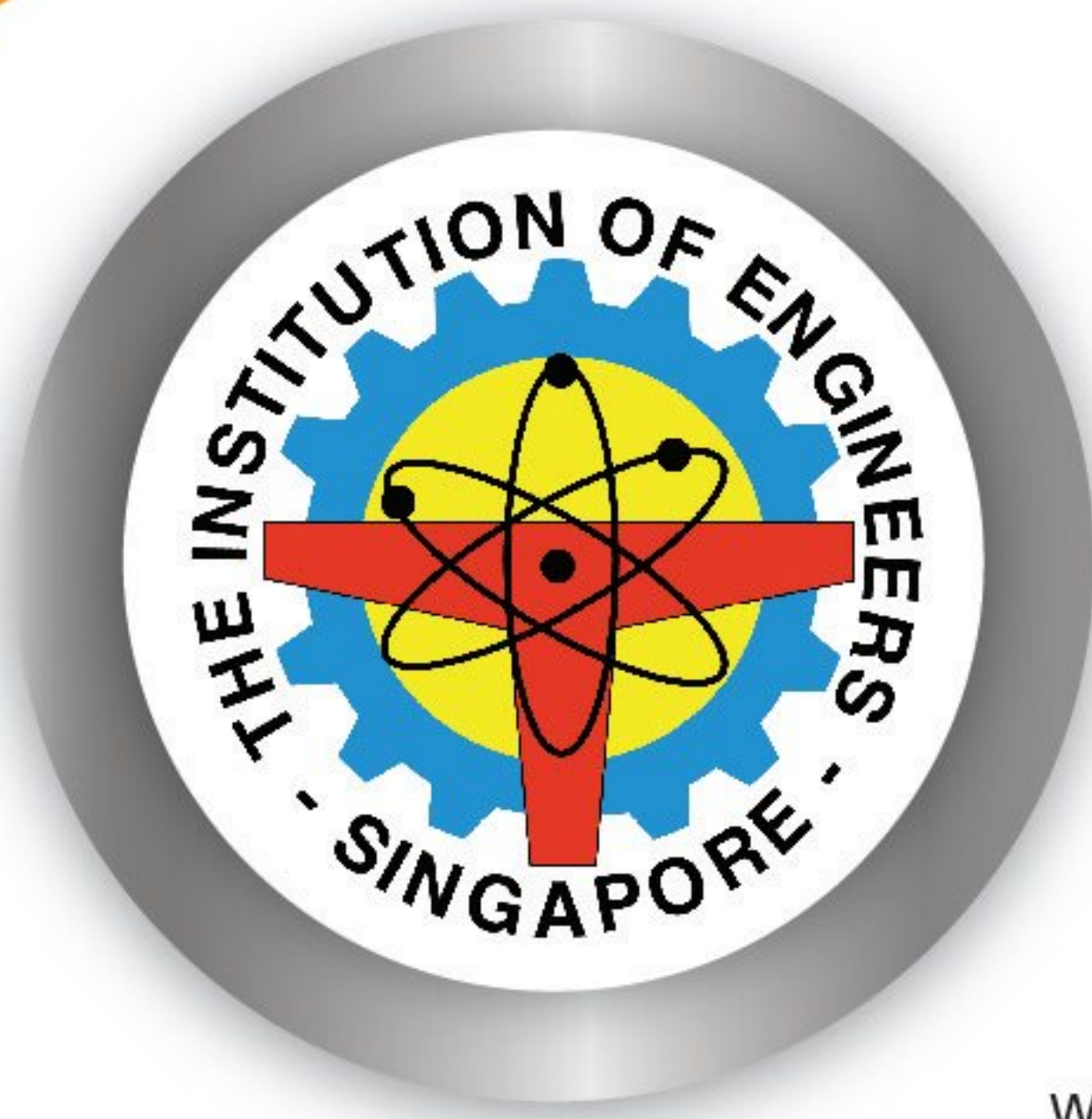


## THE INSTITUTION OF ENGINEERS, SINGAPORE



## INFORMATION KIT





## Introduction

The Institution of Engineers, Singapore was formally established in July 1966 as the national society of engineers in Singapore. IES is the premier engineering Institution in Singapore and is often called upon by the Government to provide feedback on professional engineering matters.

With members hailing from all engineering disciplines and various walks of life such as the private sector, civil service and academia, IES is well-represented in the engineering domain, and seeks to be an inclusive society.

The Institution maintains close links with professional organisations of engineers regionally and throughout the world. These include organisations in Australia, China, Japan, United Kingdom and the United States. The Institution also represents Singapore in the World Federation of Engineering Organisations (WFEO), ASEAN Federation of Engineering Organisations (AFEEO) and the Federation of Engineering Institutions in Asia and the Pacific (FEIAP) in promoting goodwill and fellowship among all engineers in the region and internationally.

Through its Engineering Accreditation Board (EAB), IES obtained full signatory status in the Washington Accord (WA) in June 2006. The entry grants IES the authority to represent Singapore, the first country within the ASEAN region which has obtained full signatory status in the WA, to vet education systems under the WA mutual recognition framework.

To raise the technical competencies of engineers in Singapore and promote engineering to the community, IES has introduced the Chartered Engineer Programme, World Engineers Summit and National Engineers Day.

IES will not rest on its laurels and will seek to bring the engineering profession greater recognition and raise the status of engineers both locally and internationally through closer collaboration with its stakeholders and contributions to society.



## **Mission Statement**

As the national society of engineers in Singapore, our mission is to advance and promote the science, art and profession of engineering for the well-being of mankind.

## **Vision**

IES aims to be the heart and voice of engineers and to be the national body and home for engineers in Singapore.

## **Objectives**

- To enhance the character and status and to advance the interest of the profession of engineering and those engaged therein.
- To promote honourable practice and mutual respect, and to decide all questions of engineering practice and etiquette affecting members of the Institution.
- To provide quality service to its members and the nation; and
- To provide opportunity for continuing professional development and promote fellowship among members.

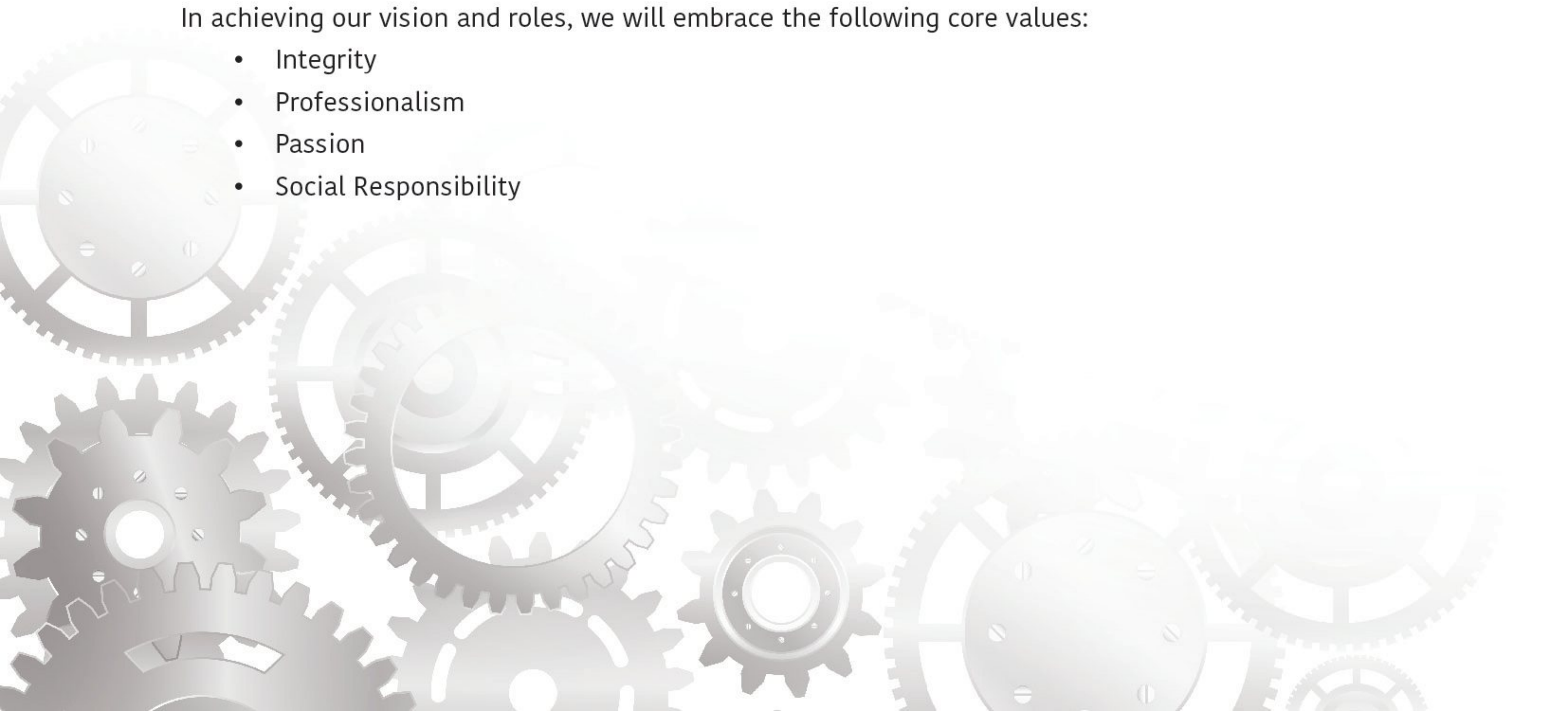
## **Roles**

- Represent engineers nationally and internationally;
- Advance the knowledge and expertise of engineers;
- Uphold the status and image of engineers; and
- Provide a platform where engineers gather for social, business, professional and career development.

## **Core Values**

In achieving our vision and roles, we will embrace the following core values:

- Integrity
- Professionalism
- Passion
- Social Responsibility





## **IES Membership**

### **Professional Development**

- Eligible for Chartered Engineers Certification Application (subject to registration criteria and conditions)
- Enjoy preferential rates for IES conferences, seminars and workshops
- Enjoy 10% to 15% discount for IES Academy Courses (T&Cs apply)

### **International Affiliations**

- Interaction with overseas engineering institutions in joint programmes

### **Networking**

- Exclusive FREE Members' Night (T&Cs apply)
- Enjoy Preferential rates for networking activities
- Join our Sports Interest Groups
- Join our Social events
- Join our Technical Committees

### **Communication**

- Enjoy FREE Subscription of IES weekly e-Newsletter
- FREE monthly "The Singapore Engineer" magazine
- FREE Annual IES Directory with your name covered
- Get the latest updates on new government regulations and allied institution activities
- Insertion of post-nominal letters of IES Membership Grades on your name card.

### **Others**

- Enjoy special rate for IES Professional Indemnity Insurance Schemes
- Enjoy exclusive merchants benefits
- FREE parking in IES premises
- Get 5% discount off your membership subscription when you pay by GIRO (T&Cs apply)

## **IES Membership Grades**

Category	Administrative Fees* (S\$)	Entrance Fees* (S\$)	Annual Subscription (S\$)	GST 7% (S\$)	Total Subscription (S\$)
Fellows	\$40	\$100	\$260	\$28.00	\$428.00
Senior Members	\$40	\$60	\$180	\$19.60	\$299.60
Members (Age >= 31)	\$40	\$60	\$180	\$19.60	\$299.60
Members (Age <=30)	\$40	\$60	\$120	\$15.40	\$235.40
Associates	\$40	\$60	\$160	\$18.20	\$278.20

\* one-time payment only

**All annual subscriptions are due on the 1<sup>st</sup> of April.**

**Subscription fee is pegged to the age of member as at 1<sup>st</sup> of April.**



## IES Committees

### COLLEGE OF FELLOWS (CoF)

The mission of the College of Fellows (CoF) is to harness the collective knowledge and expertise of IES Fellows, channelling it towards the education of future generations of engineers.

- Mentorships
- JTC-IES Collaboration
- CoF Discussion



Discussion on the Multi-Storey Recycling Facility with JTC.



Ms. Cheng Li Hui, MP for Tampines GRC (holding bouquet) poses for a group photo with Er. Chong Kee Sen, IES Immediate Past President (seventh from left) and Er. Emily Tan, WiSER Committee Chairman (in white jacket) and WiSER summit speakers and moderators.

### WOMEN IN SCIENCE, ENGINEERING AND RESEARCH (WiSER)

WiSER was formed to organise activities for women in engineering. It was set up with the purpose of:

- Empowering and promoting women leadership in the industry and professional fields
- Creating greater awareness amongst women in Science, Engineering and Research
- Promoting WiSER to aspiring students

### YOUNG ENGINEERS COMMITTEE (YEC)

The Young Engineers Committee (YEC) was set up to promote, engage and develop young engineers.



YEC Networking Session

### TECHNOPRENEURSHIP DEVELOPMENT COMMITTEE (TDC)

The Technopreneurship Development Committee (TDC) aims to connect like-minded engineers to support one another and to build a network of investors, mentors and entrepreneurs for technology, business and collaboration.



TDC Networking Session: "Learning from successes and failures"



## IES Signature Events



Members' Night: "Grow and Protect Your Assets"

### MEMBERS' NIGHT

Members' Night is an exclusive event conducted quarterly with the objectives of:

- Introducing members to interesting engineering and non-engineering areas of interests
- Creating an opportunity and platform for members to meet, interact and network.

### APPRECIATION NIGHT

IES Appreciation and Awards Night is to show appreciation to all the volunteers who have contributed to IES.



IES Appreciation Night



Celebrating the Spring Festival and the official opening ceremony of new IES Green Building by Deputy Prime Minister Teo Chee Hean

### SPRING FESTIVAL

IES celebrates Spring Festival with our members every year. Apart from the traditional Chinese Lunar New Year celebrations like mandarin oranges and lion dance, members can also look forward to comradeship bonding with other members and a sumptuous CNY dinner.



8 course "Lohei" dinner during the IES Spring Festival

### ANNUAL GENERAL MEETING (AGM)

At every Annual General Meeting, the IES President and Honorary Treasurer will present IES' performance report card for the preceding financial year.



Annual General Meeting (AGM)

### ANNUAL DINNER

IES' party of the year is also the perfect time for members and invited guests to renew friendship and camaraderie.



IES celebrates the Golden Jubilee with Prime Minister Lee Hsien Loong as our guest-of-honour



## Clusters

All IES Technical Committees are categorised into four main clusters, namely: Infrastructure, Integration, Manufacturing and Smart Nation.

The IES Technical Committees (TCs) have been established to provide interactive and open communication with members. Members can discuss and provide feedback to authorities; such as organising dialogues with government agencies, etc.

### Infrastructure Cluster

- Civil & Structural Engineering TC
- Mechanical & Electrical Engineering TC
- Health & Safety Engineering TC
- Asset Management TC
- IES/IStructE Joint Committee

### Integration Cluster

- Systems Engineering TC
- Mechanical Engineering TC
- Precision Engineering Technical Committee

### Manufacturing Cluster

- Aerospace Engineering TC
- Biomedical Engineering TC
- Chemical And Process Engineering TC
- Electrical, Electronics & Computer Engineering TC
- Marine & Offshore Engineering TC
- TC on Future of Manufacturing

### Smart Nation Cluster

- Energy TC
- Environment & Water Engineering TC
- Infocomm Technology TC
- Railway & Transportation TC



#### **IES EECETC & IEEE IA/PELS Mini-Colloquium on Emerging Industry Applications and Power Electronic Challenges**

An opportune time to seek and share knowledge, exchange expertise and gain valuable insights.



#### **SEMINAR ON ABC WATERS - CREATING SUSTAINABLE SOLUTIONS FOR LIVEABLE CITIES**

Our GOH, Dr Amy Khor speaking with one of our speakers, Mr Henk Ovink, Special Envoy for International Water Affairs for the Kingdom of the Netherlands.



#### **System Engineering Technical Talk on "Engineering the Future of Industrial Infrastructure"**

Our Speakers: eminent Prof Liu Pao Chuen and Mr David Tan, Assistant Chief Executive, Development Group, JTC Corporation during the Q&A session.



#### **Scaffold and Formwork Safety**

Our Speaker: eminent Prof N. Krishnamurthy reiterating the importance of workplace safety and risk management.



# CLIMATE CHANGE 2015 & AWARDS NIGHT

23RD JULY 2015

GUEST-OF-HONOUR: MR CHAN CHUN SING  
SECRETARY-GENERAL, NATIONAL TRADES UNION CONGRESS  
MINISTER, PRIME MINISTER'S OFFICE



## The World Engineers Summit Conference & World Engineers Expo



In 2013, IES organised the inaugural World Engineers Summit (WES) at Sands Expo & Convention Centre where more than 1,000 leading authorities and advocates of sustainability, engineers from multi-disciplines, urban planning, energy and water specialists convened to exchange best practices and explore ideas on topics relating to climate change.

WES is held biennially to engage the engineers, scientists, researchers, technology developers, stakeholders, policy makers and business leaders towards action and practices in mitigating and adapting to climate change issues.

## National Engineers Day

Held annually, the National Engineers Day (NED) celebrates engineering excellence. The event comprises a series of fun and enriching activities demonstrating the ingenuity of engineers and the myriad of possibilities of an engineering career.

NED also lines up exciting technology and career talks as well as an engineering exhibition to reach out to students from secondary schools, junior colleges, ITE and polytechnics and members of the public.

For NED talks, exhibition and sponsorship opportunities, please email [veron.poh@iesnet.org.sg](mailto:veron.poh@iesnet.org.sg) or call 6461 1240.





## International Outreach

### Participation in International Engineering Organisations

IES is an active member of the ASEAN Federation of Engineering Organisations (AFEO), the Federation of Engineering Institutions in Asia and Pacific (FEIAP) and the World Federation of Engineering Organisations (WFEO). Through our co-operation with other engineering institutions from different economies around the world, we are able to keep up to date with the latest developments worldwide, share Singapore's experiences, benchmark best practices and study and address issues concerning the engineering community such as education, continuing professional development and qualifications of engineers.



Mutual Recognition Agreement on Chartered Engineer to facilitate greater mobility between Singapore and Australia



Conducting an assessment of engineering programmes in the University of Technology, Papua New Guinea



Participation in COP-21 Engineers Climate Change Summit: Turning Words Into Action – A Sectoral Approach

### Strengthening Mobility of APEC Engineers in APEC Economies

IES has been authorised to maintain the APEC Engineer Register in Singapore since 2005. The APEC Engineer is an agreement between some APEC countries for the purpose of recognising “substantial equivalence” of professional competence in engineering.

In June 2015, Er. Tan Seng Chuan, Chairman of the International Outreach Committee at IES was elected to the position of Chairman of the APEC Engineer Coordinating Committee. To continue with its efforts to promote the mobility of engineers amongst the APEC economies, the committee is exploring setting up a centralised databank consisting of over 7000 registered APEC Engineers from 15 member economies. The initiative aims to enable the engineering community, employers and governments to solicit technical services, expedite knowledge sharing and stimulate capacity building in the APEC region.



## National and International Partnerships

IES has agreements with local and international engineering organisations, governmental organisations and major firms to attract and retain engineering talent, provide enhanced benefits to our members and facilitate international mobility for our members.

Under the National Committee of Engineering Organisations, IES is working with other engineering-related associations from various engineering disciplines and sectors in Singapore to collaborate and promote the advancement of the engineering profession in Singapore.



IES and Science Centre Singapore to combine expertise to open up new possibilities in fun-filled activities and discovery programmes as part of its efforts to enthuse the young in engineering

## Hosting of Visits from International Organisations

IES continues to strengthen its ties on the international stage by hosting courtesy visit from engineering associations. In 2015 / 2016, we hosted visits from several engineering organisations from Australia, China, Malaysia, Ghana, United States and the United Kingdom to exchange ideas, experience and explore collaboration opportunities.



Sharing of expertise in railway engineering between IES, the Land Transport Authority and the former founder of National Skills Academy for Railway Engineering (NSARE) and the National Training Academy for Rail (NTAR) in the United Kingdom



## *APEC Engineer*

The APEC Engineer is an agreement between participating economies within the Asia-Pacific Economic Cooperation (APEC) for the purposes of recognising substantial equivalence of professional competence in engineering. Registration as an APEC Engineer provides one with the opportunity of having his/her professional standing recognised within the APEC region thereby contributing to the globalisation of professional engineering services.

## *ASEAN Engineering Register (AER)*

The ASEAN Engineering Register aims to provide a complete data of practising engineering professionals within ASEAN whose professional qualifications are recognised based on an established framework of mutual recognition. It has the ultimate purpose of facilitating mobility of engineering practitioners who wish to practise outside their home country, making the ASEAN an accessible common market and borderless production base.

## *Chartered Engineer (Singapore) Registry*

The Chartered Engineer Registry aims to provide professional recognition to IES members as qualified engineers across various sectors, particularly for engineers in branches of engineering which are not in the prescribed branches for registration as Professional Engineers by the Professional Engineers Board. Being registered as a Chartered Engineer (Singapore) will be an independent validation of the engineer's experience, expertise and competence; and is a quality mark to differentiate one's professional standing in the sector (Aerospace, Chemical & Process, Environmental & Water, Marine & Offshore, Systems, Railway & Transportation Engineering).



## *IPTC Registry*

The Intellectual Property Technology Consultant (IPTC) Registry is a professional certification programme to recognise individuals who perform intellectual property (IP) technology advisory roles within in-firm organisations or as service providers. This registry is a joint initiative by The Institution of Engineers, Singapore (IES) and the Intellectual Property Office of Singapore (IPOS).

Administered by IES, the IPTC certification is applicable to individuals who are equipped with engineering, science and technology qualifications.

Benefits of becoming a certified IPTC are:

- Leverage the prestige and privileges of becoming an IPTC
- Professional and industry recognition of IP and technology competencies
- Greater visibility to potential clients
- Career advancement opportunities in the IPTC profession
- Access to relevant training and professional development programmes





## *The Singapore Certified Energy Manager (SCEM) Registry*

The SCEM programme is designed for engineering professionals who intend to build their career as energy managers. Training courses are put in place to help participants develop the technical skills and competence needed to manage and track energy usage within the organisation that they serve. Upon completing the training, participants may apply to register as a Singapore Certified Energy Manager (Professional Level) (SCEM).

With effect from 1 April 2014, according to the Mandatory Energy Management Practices (Energy Conservation Act), a registered corporation shall appoint among its employee one or more Energy Manager who are registered SCEM with IES.

A registered SCEM is a competent energy professional qualified to perform technical and managerial functions in the areas of:

- Energy audits, management and measurements
- Energy retrofitting services
- Financial advisor for energy efficiency measures and contracting
- Consultation and procurement services
- Facility and energy management
- Energy engineering works

## *Active, Beautiful and Clean Waters Professional (ABC WP) Registry*

In 2011, PUB and IES, together with the support of SIA, SILA, HDB, LTA and NParks, launched ABC Waters Professional Programme. Since then, a series of accredited training modules have been put in place to develop the industry's competence to realise the ABC Waters Concept.

To recognise the quality of design work of ABC Waters Professionals, the ABC Waters Professional Registry was set up in 2013. Professional Engineers (Civil), Architects or Landscape Architects who have successfully completed the accredited training programmes are eligible to register with IES, SIA or SILA respectively as ABC Waters Professionals (ABC WPs).

Since 1 Jan 2014, it has been a requirement by the Code of Practice on Surface Water Drainage (COP) for ABC Waters features to be designed by ABC WPs. Developers and owners must also engage ABC WPs to oversee the construction and development of maintenance plan for such features.

## *Engineering Expert Panel (EEP)*

The engagement of engineering experts in both litigation and arbitration is increasing with more arbitrators and courts opting to appoint engineering experts to assist in complex and technical matters. With this in view, IES formed an Engineering Expert Panel (EEP) to respond to the calls of assistance from the community.

A Member of the EEP is either a Fellow of IES or a Senior Member who has been a Member for at least 15 years. Each Engineering Expert has extensive or specialised experience or knowledge of a particular branch or area of engineering, is trained and capable of providing expert opinions on specific aspects of a project.





## ***Project Management (PM) Registry***

Recognising that project management is an important skill for engineering professionals, IES has taken the initiative to set up an industry-based registry for the registration of project engineers and managers. All IES members with formal project management training, skills and experience are eligible to apply for registration at various proficiency levels.

The registration is a recognition of special skills and training and aims to provide assurance to companies and employers on the competencies, experience and continuing relevancy of the registrants.

Successful applicants are entitled to use the designated abbreviations: CPM or CPE or Assoc. CPE.

## ***IES-ACES C&S Resident Engineers (RE) and Resident Technical Officers (RTO) Registry***

In order to ensure that there is adequate and proper supervision of structural aspects of construction works, the Building Control Act requires qualified site supervisors or supervision teams to assist the Professional Engineer in the supervision of construction works.

Since 15 Feb 2009, the Building Control Act has been amended, making it mandatory for all qualified site supervisors to be accredited with the IES- ACES Joint Accreditation Committee (JAC) as C&S Resident Engineers (RE) or Resident Technical Officers (RTO). Only C&S RE or RTO who remain accredited by the JAC can continue as qualified site supervisors to supervise structural aspects of all construction works. Registration is accorded to suitably qualified applicants with Diploma/Degree in Civil or Structural discipline.



## ***IES-ACES M&E Resident Engineers (RE) and Resident Technical Officers (RTO) Registry***

M&E Resident Engineers (RE) and Resident Technical Officers (RTO) are part of the on-site supervision team to assist M&E Consultants in ensuring compliance to design and quality of installation and to support initiatives towards the realisation of a sustainable built environment and a highly productive construction industry.



On 14 March 2014, IES and ACES jointly launched the M&E RE and RTO Registry. The registration not only aims to recognise M&E REs and RTOs, but it would also provide registered site supervisors with the appropriate training opportunities to enhance their technical know-how and help them keep abreast of the latest initiatives and developments in the built environment sector. This is to ensure that building projects across Singapore are completed according to the highest safety standards and quality.



## ***IES / ACES Qualified Electrical Contractors (QEC) Registry***

The QEC Registry has been launched to establish a list of qualified electrical contractors (QEC) for use by public and members of IES and ACES.

The registration is open to firms with electrical engineering works as one of their principal activities. Registration is only accorded to firms that have sufficient financial resources, experience and technical expertise to undertake contracts and have consistently achieved good performance. The registration is essentially a quality mark for electrical contractors, aiming to create awareness that work of quality can be delivered by the QEC. The Registry has also devoted effort to provide training opportunities to staff of QEC to achieve better quality and standards of electrical installation.



## ***IES/ACES Qualified Erosion Control Professional (QECP) Registry***

The Qualified Erosion Control Professional (QECP) scheme is to train and build competence within the construction industry and establish a list of registered QECPs to ensure that Earth Control Measures (ECM) remain effective despite changing weather conditions in Singapore.

After attending and passing an accredited 10-week training, Professional Engineers (Civil) who have the necessary experience in erosion and sediment control for construction sites in Singapore may apply to be registered as QECPs.

To achieve better quality and standards of earth control measures (ECM), PUB revised its Code of Practice on Surface Water Drainage in 2007, requiring building contractors to submit and implement ECM plan before the start of any construction work. These plans must be designed and endorsed by a QECP.

## ***IES/ACES Earth Control Measures Officer (ECMO) Registry***

While the Earth Control Measures (ECM) programme implemented in 2007 has been enhanced with ECM plans that must be designed and endorsed by QECPs, there is a need for ECM-trained staff on-site to link up with QECPs, assist building contractors to supervise the operation and maintenance of ECM plans. Hence, effective from 1 April 2015, all new construction sites with 0.5ha and above in area are required to have an Earth Control Measures Officer (ECMO) at the construction site.

Before registering as an ECMO, site personnel need to complete and pass a Certificate on Competency (CoC) in ECM course, a one-day training conducted by IES.



## *Standards Development Organisation @ IES*

IES has been appointed by SPRING Singapore as the Standards Development Organisation (SDO) for the Building and Construction Standards Committee (BCSC) from January 2015.

BCSC supports quality, safety and productivity initiatives in the Singapore building and construction industry. The committee also supports standardisation development in emerging areas of importance in Singapore such as Smart Infrastructures and Green Buildings.

Guided by the industry-led Singapore Standards Council (SSC), SDO@IES administers and supports the development, promotion and implementation of standards in Architectural Works, Building Maintenance and Management, Building Structures and Substructures, Civil and Geotechnical Works, and Construction Management, to meet the needs of the industry and regulators.

SDO@IES has been actively engaging IES members, industry partners and stakeholders in the promotion and adoption of standards for the building and construction community in Singapore, for the Singapore Standardisation Programme managed by SPRING Singapore, the national standards body.

The technical committees and working groups comprise representatives from ministries and government agencies, industry associations and professional bodies, educational institutions and industry practitioners with vast experience in the industry.

SDO@IES also organises and participates in many outreach activities and programmes to promote Singapore standards. They include leadership and standards education talks at Institutions of Higher Learning, symposiums, overseas study trips and many other events such as the National Engineers Day Exhibition and World Engineers Summit.





Listed below are examples of some key organisations with representatives involved in our work. Representatives from large, small & medium enterprises are also actively involved in the Singapore Standardisation Programme.

### Academia

Nanyang Technological University  
National University of Singapore  
Singapore Institute of Technology  
Singapore Polytechnic

### Industry

Association of Consulting Engineers Singapore  
Association of Property and Facility Managers  
Fire Safety Managers' Association (Singapore)  
Geotechnical Society of Singapore  
Institution of Facilities Management  
Real Estate Developers' Association of Singapore  
Singapore Contractors Association Limited  
Singapore Green Building Council  
Singapore Institute of Architects  
Singapore Institute of Building Limited  
Singapore Institute of Surveyors and Valuers  
Singapore Manufacturing Federation  
Singapore Plumbing Society  
Singapore Sanitary Ware Importers and Exporters Association  
The Institution of Engineers, Singapore

### Government

Building and Construction Authority  
Energy Market Authority  
Housing and Development Board  
JTC Corporation  
Land Transport Authority  
Ministry of Manpower  
National Environment Agency  
Public Utilities Board  
Singapore Civil Defence Force  
Urban Redevelopment Authority



Seminar on SS 560 Specification for steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product on 15 July 2016



Seminar on Singapore Standards for air conditioning, mechanical ventilation and indoor air quality on 11 August 2016



2<sup>nd</sup> National Young Professionals Workshop 2016 on 13 May 2016



## Publications

IES publishes a range of print and online publications for its members. All members receive complimentary copies of the following:

- The Singapore Engineer
- IES Engineering Directory
- E-newsletter

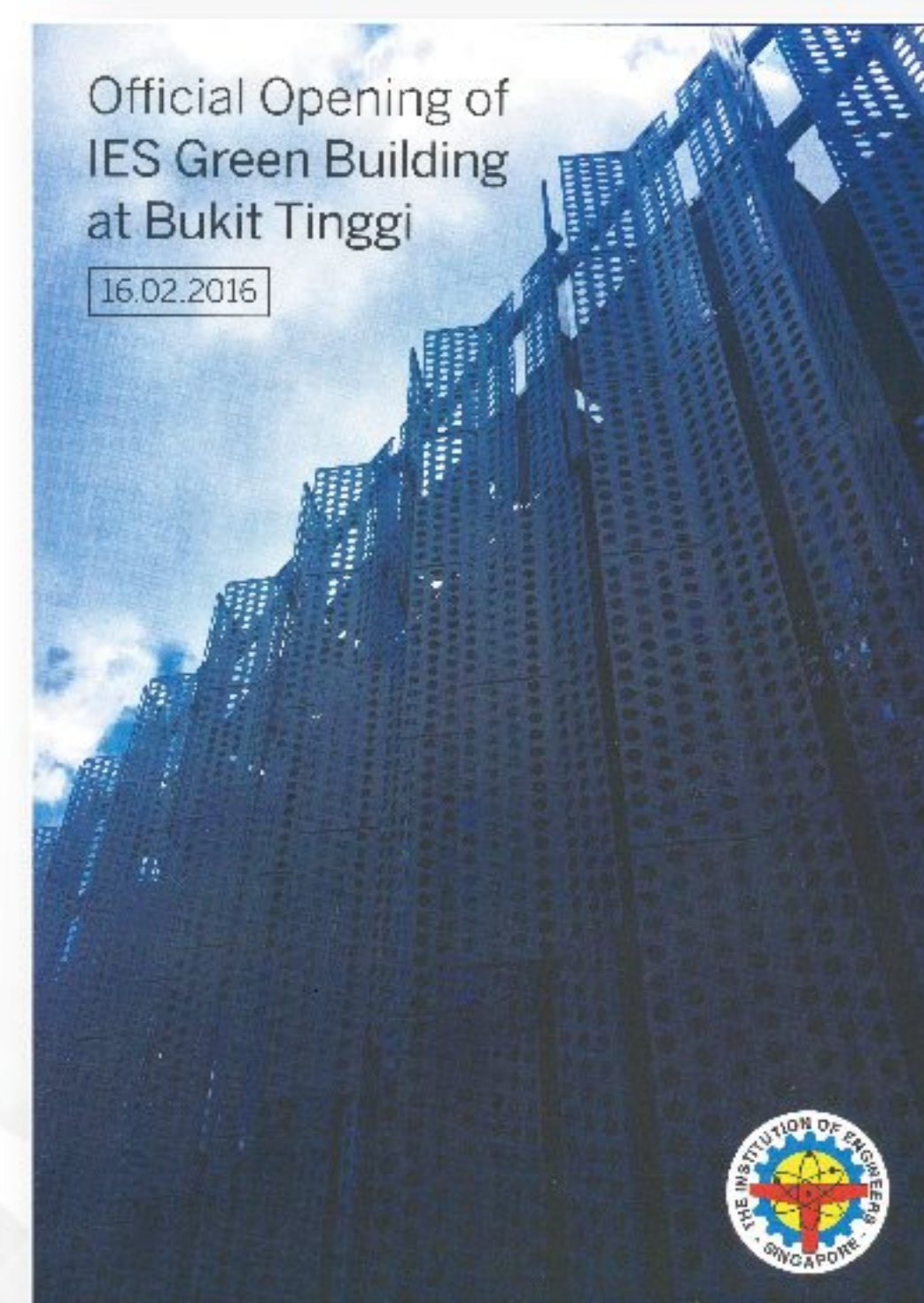
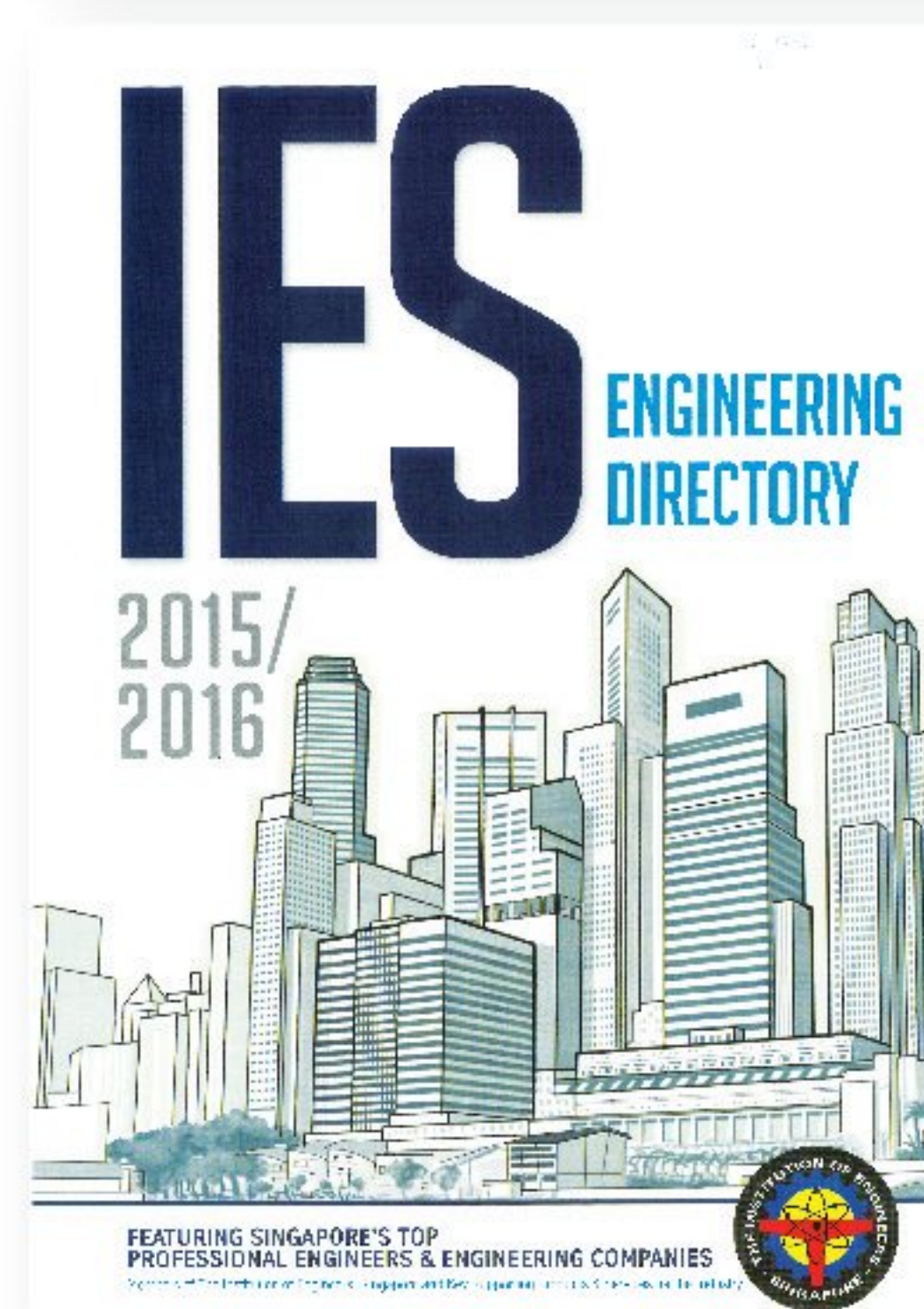
The Singapore Engineer is a monthly magazine that carries news of IES and engineering features such as projects, trends, technology, interviews. It also keeps the members up to date with industry snippets.

The Singapore is available in both electronic version and printed copy for members.

The IES Engineering Directory is an annual directory that lists the contact details of all its members. The easy-to-reference directory allows users to search for an IES member who specialises under his/her core engineering discipline.

The IES electronic newsletter is sent weekly to keep its members up-to-date on IES activities and courses/workshops/seminars.

Other publications produced by the publications department include Annual Report, commemorative magazines and ad hoc publications.





## ***IES Academy @ Jurong East***

IES established the Continuing Education Centre (CEC) for the professional development of its members and the public in 1990.

To address the growing demand for continuing engineering education in Singapore, IES Academy (IESA) was set up to take over the expanding role of CEC on 1 April 2006 with the view to providing the professional updating and training needs of IES members and engineers.

To ensure quality administration and documentation, IESA has attained ISO9001:2008 certification for its Professional Development Training Courses and Seminars in 2008.

The objectives and direction of IESA are set out by IES Council and steered by its Management Board, currently led by Prof Leung Chun Fai. IESA Academic Panel currently led by Dr Christopher Yap ensures that its courses and delivery meet established standards and are of high quality.

Besides conducting courses to meet demands for continuing education, IESA also collaborates with industry, local tertiary institutions and government agencies in the design and conduct of continuing engineering education and certification programmes.

To serve our members better, IESA was relocated to the Devan Nair Institute for Employment and Employability in April 2016. Its official opening was graced by Mr Chan Chun Sing, NTUC Secretary-General & Minister, Prime Minister's Office. IESA@Jurong East is easily accessible by MRT, bus and has ample carparks in the vicinity.





## Our Courses

For FY 2015-2016, a total of 8,446 engineers have attended and benefited from IESA professional development programmes.



Advanced Engineers Leadership Programme

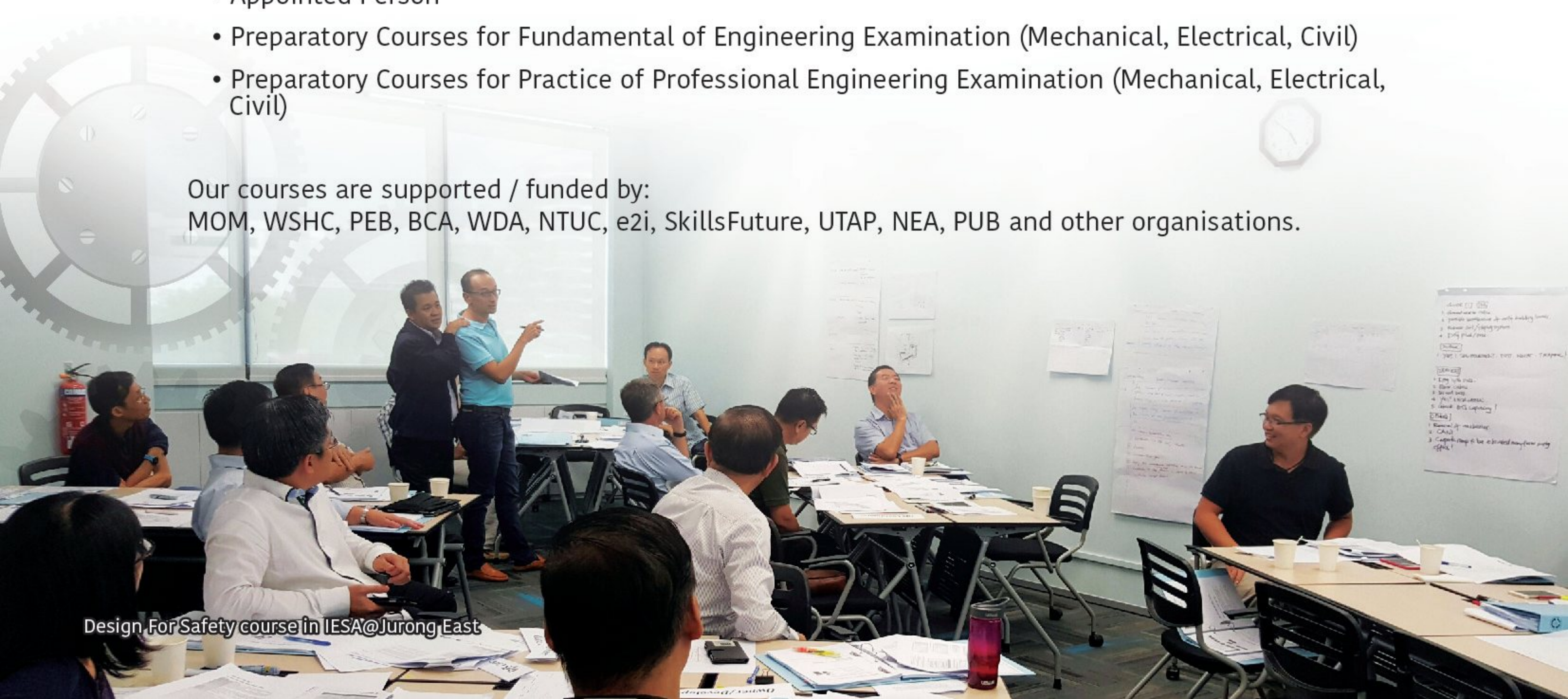
IESA generally organises preparatory courses for engineers taking the Professional Engineers Exam by the Professional Engineers Board, certifiable courses to qualify engineers to join IES registries and courses for continual education to provide update and skill / knowledge development. IESA organises about 180 events / courses annually.

Our popular courses include:

- Young Engineers Leadership Programme
- Advanced Engineers Leadership Programme
- ABC (Active, Beautiful, Clean) Waters Professional
- Qualified Erosion Control Professional
- Singapore Certified Energy Manager
- Design For Safety Professional
- Appointed Person
- Preparatory Courses for Fundamental of Engineering Examination (Mechanical, Electrical, Civil)
- Preparatory Courses for Practice of Professional Engineering Examination (Mechanical, Electrical, Civil)

Our courses are supported / funded by:

MOM, WSHC, PEB, BCA, WDA, NTUC, e2i, SkillsFuture, UTAP, NEA, PUB and other organisations.



Design For Safety course in IESA@Jurong East



## Improving Your Learning Experience

From 2014 to 2016, more than 350 engineers successfully completed our Young Engineers Leadership Programme (YELP). To enhance the takeaways of future programme participants, IES Academy has made significant improvements to the pedagogy of the programme, currently known as YELP II.

YELP II will include a learning journey with 7 enhanced modules, listed below, and a Learning Journey to DHL:

- Marketing of High Technology Products & Innovation
- Systems Thinking & Architecting
- Disruptive Innovation Strategies
- Persuasive Communication
- Technology Commercialisation
- Strategic Thinking for Technology Leaders
- Master Your Mind For High Performance

The learning journey will demonstrate how DHL drives innovation in logistics through its intimate understanding of the future of the industry and its provision of a collaborative platform to develop cutting edge business solutions.

### Learning Objectives:

- Learn about the best practices along the end-to-end supply chain
- Understand the innovation journey from visions to trends & to solutions with a focus on robotics & automation
- Identify the opportunities & challenges of logistics in the Asia-Pacific
- Discover new industry trends & explore their usage in logistics



Interactive sharing session during YELP lesson.



YELP II participants pose for a group photo after their final lesson.

### Future Plans

IESA will be aligning its management system to ISO29990:2010. This will transform IESA from a training provider to a learning service provider with learners as the main focus. IESA is also looking at making its training centre more interactive to better engage learners, as it moves towards intelligent learning.





### *Away Day*

Every year, IES Council members gather for a getaway session for brain-storming and strategic planning to bring IES and engineering professionals to greater heights. IES management staff also participate in this Away Day.



### *Community Visits*

IES members also show their compassionate side through their involvement and engagement in community services. The committee organises visits to the THK Home for the disabled. It also participates in a Christmas party for the children of the Cerebral Palsy Alliance, Singapore.



### *Inter-Professional Games*

IES participates in the friendly games amongst the six professional communities, namely the accountants, architects, doctors, engineers, lawyers and surveyors and valuers. The games include bowling, badminton, pool, golf, table tennis, basketball, netball and international chess. Through the games, IES members not only get to enjoy the sports and recreational activities, they also have the opportunity to network with members from other professional bodies.

