

VIRTUAL HALF DAY COURSE ON ELECTRIC VEHICLE CHARGING BAY (EVCB)

OUR SPEAKERS



**IR. TS. DR
ANDREW NG**
IEM



**MR. LEE KIM
SOON**
CHINT MALAYSIA



**TS. DR MOHD
ZAID**
BOMBA

BEM Approved CPD/PDP Hours: 4 Ref. No.: IEM24/HQ/266/C (w)

REGISTRATION FEES

Student Member RM 40

Graduate Member RM 75

Corporate Member RM 125

Non IEM Member RM 240

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**24 JULY
2024**

(ZOOM ONLINE)

9.00 am - 1.00 pm

About the Speaker & Synopsis

Ir. Ts. Dr Andrew Ng

Andrew Ng is on a mission to help industrial players in protecting their businesses from fire damage. Trained as a chemical engineer and scientist with international recognitions, Andrew is a chartered and professional engineer and chartered scientist who is specialized in energy conversion and storage materials and technologies. These specialisations were brought together through his 8 years of engineering and R&D experience to provide modern and commercially viable fire suppression and prevention technologies for EV related sectors.

EV Fire - An Engineering Perspective

A recent influx in the usage of electric vehicles (EVs) was observed over these few years as our society is progressing towards the use of cleaner energy sources with lower carbon emissions. EVs, in contrast with gasoline-based vehicles, utilize lithium ion batteries (LiBs) to power their engines. With the ongoing R&D development, LiBs are made to be smaller, lighter and of higher power density to improve the efficiencies of EVs. Nevertheless, such progressions will also result in the significant increase in the risk and the severity of EV fire during LiBs failure. Thus, the continual heightening of public awareness and vigilance on EV fire hazards are crucial to keep abreast with the continual increase in EV technology. In this talk, I will be highlighting on the hazards of EV fire based on the "Chance versus Damage" concept. We will also be examining several recent EV fire incidents to gain more insights on their associated hazards. Attendees will also be exposed to the present solutions and their respective limitations in combating EV fire.

Mr. Lee Kim Soon

Mr. Lee Kim Soon has an expertise in low voltage electrical especially in the solar and EV charger section, delivering electrical components and solutions contributing to the development of sustainable energy infrastructure that benefit everyone. He also has more than 10 years energized and experienced in solar industrial in Malaysia by completed over 300 solar PV system projects.

2024 EV Charger System Solution

This presentation explores AC and DC EV chargers in Malaysia, detailing the differences and applications. It includes Bomba guidelines and regulatory requirements, emphasizing safety standards, installation protocols, and compliance with local authorities to ensure proper integration and usage of EV charging infrastructure.

About the Speaker & Synopsis

Ts. Dr Mohd Zaid

Dr Zaid is a regular and frequent speaker on fire safety and is well qualified with a Bachelor's Degree in Building Technology from University Islam Antarabangsa (UIA), followed by a Master Degree from University Sains Malaysia (USM) in 2012 and a Doctor of Philosophy (PhD) in Built Environment in 2021 from UIA.

Dr Zaid started his career in 2004 as Assistant Director in the Fire Safety Division in Penang moving on to Research and Planning at Headquarters. He was then posted to the Fire and Rescue Academy at Kuala Kubu Bahru (KKB) where he was appointed as the Senior Training Officer until 2016. He moved on to be the Assistant Director, Fire Safety Division in Selangor and subsequently, to the Fire and Rescue Department of Malaysia (or popularly known as BOMBA) where he is currently the Assistant Fire Commissioner based in Putrajaya.

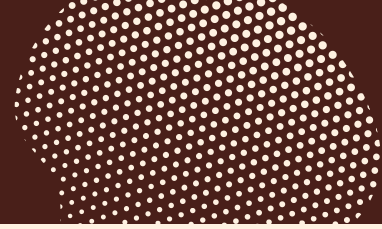
Fire Safety Guidelines & Submission Requirement for EVCB In Premises

Towards a sustainable country, Malaysia is moving forward with a sustainable energy future. Comprehensive policies, sustainable technology investments, and stakeholder collaboration are vital in bolstering Malaysia's sustainability journey. The 12th Malaysia Plan (2021-2025) takes positive steps by emphasising green growth, renewable energy, conservation, sustainable transportation, and social inclusivity. Electric vehicle (EV) transportation is the trend in our current market right now and 10,000 units of charging stations are the aim to have by 2025.

From a fire safety point of perspective, a fire hazard risk for the EV car is due to the lithium ion battery being one of the more likely factors when it is being charged. To address the concerns of public safety, electric vehicle charging bay guidelines have been published to meet the minimal fire safety requirement.

With the need to adopt sustainable energy resources, we have seen the advent of electric vehicles (EVs) with residential and office buildings including shopping malls installing EV Charging stations to provide the necessary amenities. The speaker will share invaluable aspects on fire hazards of EVs, fire safety strategies for EVs and fire safety for EV charging stations.

Course Program



Time

Topic

8.30 am - 9.00 am

Registration

9.00 am - 10.00 am

**EV Fire - An Engineering
Perspective**

10.00 am - 11.00 am

2024 EV Charger System Solution

11.00 am - 12.00 noon


**Fire Safety Guidelines &
Submission Requirement
for EVCB In Premises**

12.00 noon - 1.00 pm

Q&A Session

***"IEM reserves the right to alter or cancel the programme due to unforeseen circumstances at its discretion.
For intending participants who choose to 'walk in without prior registration',
IEM SHALL NOT be responsible for any direct or consequential losses***

ANY INQUIRY:

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