

Electrical Engineering Technical Division,  
EETD IEM - Presents

# One Day Seminar on Earthing & Lightning Protection on MS/IEC 62305



**20th May 2025,  
Tuesday**



**Malakoff Auditorium,  
Ground Floor,  
Wisma IEM, PJ**

Join us for a comprehensive one-day seminar on Earthing & Lightning Protection, designed to enhance your understanding of lightning protection standards and practical implementation. Based on the MS/IEC 62305 series, this seminar will cover the theory, design principles, and risk assessment methods essential for effective lightning protection systems.

The agenda includes:

- An in-depth look at lightning phenomena and protection concepts
- Risk assessment procedures and software demonstration
- Technical guidance on designing external lightning protection systems
- Insights into managing transient over voltages with surge protective devices

Participants will also benefit from interactive Q&A sessions, live demonstrations, and networking opportunities with industry peers. Whether you're an engineer, consultant, or facility manager, this seminar is tailored to equip you with practical knowledge and tools to enhance safety and compliance in your projects.

## Registration Fees

**IEM Student : RM50**

**IEM Graduate Member : RM 100**

**IEM Corporate Member : RM 200**

**Non-IEM Members : RM400**

**CPD HOURS : 7 REF No : IEM25/HQ/212/S**

*Speakers*



**Mr. Paul Onyett**



**Mr. Yeffry Wiyana**



This Event Brought to you by



Time	Agenda
08:30 AM	Registration and networking
09:00 AM	Welcoming speech by the moderator.
09:15 AM	MS/IEC 62305 Part 1 <ul style="list-style-type: none"> <li>- Lightning strike phenomena.</li> <li>- Refreshment of MS/IEC 62305 parts overview.</li> </ul>
10:00 AM	- Lightning protection basic theory: level, zone.
10:15 AM	Break
	MS/IEC 62305 Part 2 <ul style="list-style-type: none"> <li>- Understanding Risks with respect to the loss and damage level.</li> <li>- Lightning Protection Level (LPL) &amp; Lightning Protection Zone (LPZ).</li> <li>- Risk management procedure and risk level calculation.</li> </ul>
10:45 AM	- Quicker risk level calculation using software (demonstration).
11:00 AM	Break
	MS/IEC 62305 Part 3 (first session) <ul style="list-style-type: none"> <li>- Lightning Protection System LPS.</li> <li>- External LPS Design Consideration.</li> </ul>
12:00 AM	- Air Termination System, down conductors and earth termination system.
	- External LPS Design Consideration.
1:00PM	Lunch break
2:00PM	MS/IEC 62305 Part 3 (second session) <ul style="list-style-type: none"> <li>- Air Termination System, down conductors and earth termination system.</li> <li>- Lightning equipotential bonding.</li> <li>- Soil Treatment.</li> <li>- Type Test of Lightning Protection Components (IEC 62561).</li> </ul>
3:00PM	Break
3:20PM	MS/IEC 62305 Part 4 <ul style="list-style-type: none"> <li>- Introduction of Transient (origins from lightning and for industrial).</li> <li>- Introduction of source &amp; zones.</li> <li>- Coordinated SPD and Selection of SPD for different LPZ.</li> </ul>
5:00PM	Q&A session
5:30PM	End of event

## Speakers Profiles

**Speaker 1 :** Paul is a fully qualified electrical engineer with 30 years' experience. He has City & Guilds qualifications in Electrotechnical Engineering gained from Rugby College. He is currently the Global Product Executive for ABB Furse utilizing his experience from previously worked in another business unit in ABB previously working across EMEA and APAC. Paul specializes in the Surge Protective Devices (SPDs) and is part of the Furse UK factory team. Paul is involved in the Furse Total Solution which includes the Earthing and Lightning Protection part of the business. As the former General Manager at ABB Elkay, ABB Royce Thompson and in 4 of the ABB Global Emergency Lighting brands he oversaw the entire process of delivering products to his customers, from suppliers to sales, to marketing and new product development. With over 14 years of experience in the manufacturing industry, he has a deep understanding of the needs and challenges of electrical distributors right through to installation companies, and how to provide them with the best fit and forget products on the market. Paul has worked with many customers and wholesalers and supported their contracts and projects in various sectors, such as defense infrastructure, hotels, sports clubs, education, retail, and restaurant chains. He helps our distributor partners to win projects and keep them, by offering the key assistance that is required to secure the contracts.

**Speaker 2:** Jeffry has a Bachelor of Electrical and Electronics Engineering qualification from Satya Wacana Christian University, Indonesia, followed by an MBA Degree from SP Jain, Singapore, and Post Graduate Diploma Degree from Nanyang Technological University, Singapore. He started his professional career as an application engineer for electrical and instrumentation systems, then was assigned to the technical sales. Jeffry joined ABB Furse in 2010, established and built the competency and experience in the earthing and lightning protection system. His current role is Regional Business Development Manager, working closely with the project consultant and the contractors, taking part in the technical sharing, training, and seminars on earthing and lightning protection systems.