

TEEAM Series of Technical Talks 03/2026

Arc Flash Safety: Global PPE Trends, Hazard Assessment and Protection Strategies



Arc flash is one of the most serious electrical hazards faced by personnel working on or near energised electrical equipment. As Malaysia's electrical and energy industries continue to evolve, there is an increasing need for greater awareness, proper risk assessment, compliance with safety regulations, and the adoption of effective protection measures to safeguard lives and critical infrastructure. The talk brings together industry experts to provide a comprehensive understanding of arc flash safety from global best practices to practical implementation in Malaysia. The three-session programme will explore international and Malaysian developments in arc flash Personal Protective Equipment (PPE), the science and consequences of arc flash incidents, hazard assessment methodologies, mitigation techniques, and the implementation of fast arc flash protection systems. Participants will gain valuable insights into current regulations and industry trends, understand how arc flash risks are identified and assessed, and learn practical strategies to prevent or minimise arc flash incidents through appropriate engineering controls, safety studies, and PPE selection. This talk is especially relevant for engineers, consultants, contractors, manufacturers, facility owners, safety professionals, and all personnel involved in the design, operation, maintenance, and management of electrical installations. It aims to strengthen industry knowledge and promote safer electrical workplaces through improved awareness and best practices in arc flash protection.



Mr. Geoff Wynn



Mr. Leong Sek Kai



Ir. Chew Shee Fuee



Fees:
RM30 for TEEAM Member
RM60 for Non-TEEAM Member



Approved with
BEM 3 CPD hours &
CIDB 5 CCD points



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Register Now!



Please Register by
28th October 2026



04th November 2026



09:00 AM - 01:00 PM



TEEAM Seminar Hall,
No. 5-B, Jalan Gelugor,
Off Jalan Kenanga, Kuala Lumpur

<https://forms.gle/bAhoCi5othKK3tH68>

Programme

- 09.00 Registration & Light Breakfast
- 10.00 Welcome Remarks
- 10.05 Arc Flash Global PPE Trends by Mr. Geoff Wynn
- 10.50 CIRED Arc Flash: Mitigating Arc Flash Hazards by Mr. Leong Sek Kai
- 11.35 Coffee Break
- 11.50 Understanding the Dangers of Arc Flash and Learn How to Protect Against It by Ir. Chew Shee Fuee
- 12.30 Q&A
- 01.00 End

SESSION 1

Arc Flash Global PPE Trends

by **Mr. Geoff Wynn**



SYNOPSIS

The talk will outline global arc flash regulations & trends that have already been adopted or under consideration in different countries, including accident data and the need for the correct head to toe solution for arc flash Personal Protective Equipment (PPE). New product information and products becoming available in the Malaysian market will be shared. Speaker will also comment and review the current Malaysian PPE laws, which cover arc flash PPE.



SPEAKER'S PROFILE

Mr. Geoff Wynn is involved in the development of technical textiles in the last 40+ years. He was the co-inventor of pr97 (www.pr97.com.au) released in 1997, a new technology for the Global Aluminium Industry. He had run projects in around 60 countries on every continent. From 2000 - 2006, he was contracted to an Industrial laundry in the US to develop products & train sales staff, and NFPA 70E was released late 2000 - 2001.

From 2004 - 2024, he was contracted to Austrian based Lenzing Fibres (www.lenzing.com) to develop protective clothing supply lines in the APMEA regions, fibres shipped from Austria & complete supply lines established with trusted partners, fully certified & produced in Asia.

He is now a self-employed Technical Consultant focusing on education (particularly arc flash), and new product development & business development for non-conflicting clients.



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SESSION 2

CIRE Arc Flash: Mitigating Arc Flash Hazards

by
Mr. Leong Sek Kai



SYNOPSIS

Arc Flash incidences in Medium Voltage (MV) electrical equipment can occur despite best efforts in maintenance. The consequence of such arc flash incidents can be as severe as total loss of the switchgear and other equipment or, at worst, loss of life.

The talk will cover the following:

- What is an Arc Flash
- The consequences of an Arc Flash
- Understanding Arc Flash
- Arc Flash Hazard Safety Studies and Assessment Methods
- How much PPE is needed
- Arc Flash mitigation methods
- Fast Arc Flash protection is effective
- Arc Flash Protection implementation



SPEAKER'S PROFILE

Mr. Leong Sek Kai graduated as an Electrical and Electronics Engineer from University of Leeds and is a Chartered Member of the Institution of Electrical Engineers UK (now known as The Institution of Engineering and Technology), Member of the Institute of Electrical and Electronics Engineers (IEEE-USA) and The Institution of Engineers Malaysia (IEM).

He worked as a Research Engineer with the National Grid Research & Development laboratories UK for 12 years before returning to Malaysia to join Simpro Engineering Sdn Bhd (SIMPRO) as Engineering Manager.

He is currently the Technical Director for SIMPRO, which specialises in delivering solutions in the fields of protection, control, monitoring and testing of high voltage electrical assets and systems. These solutions leverage on innovative products from Schweitzer Engineering Laboratories (USA), Doble Engineering (USA), Morgan Schaffer (Canada), Vanguard Instruments (USA), Techimp (Italy) and Ametek Power Instruments (USA).



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SESSION 3

Understanding the Dangers of Arc Flash and Learn How to Protect Against It

by
Ir. Chew Shee Fuee



SYNOPSIS

Arc flash has been recognised as a significant cause of fatal electrical incidents. The causes of arc flash will be discussed and efforts to eliminate or reduce such incidents will be elaborated.

There are measures that can be taken to prevent the occurrence of arc flash. The arc flash risk assessment is the essential step to address the problem. This will be further explained in this talk.



SPEAKER'S PROFILE

Ir. Chew Shee Fuee KMN B Sc (Hons) (Strathclyde), PEng, CEng, FIEM, MIEE Member, IEEE Member, 1st Grade Electrical Engineer (Competent up to 500 kV).

Ir. Chew was President of The Electrical and Electronics Association of Malaysia (TEEAM) for 2001-2005 and 2013-2017. He was a Past Chairman of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) for 2016-2018. Past Chairman of The Institution of Engineering & Technology (IET) Malaysia Local Network.

Ir. Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and Chris Chew Electrical Consultant. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by the Energy Commission as a Competent Engineer (without voltage limits) and a Service Engineer to carry out electrical testing up to a voltage of 500 kV.

Ir. Chew has more than 40 years of industry experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgears and relays. His work also includes electrical supervision of sub-stations and electrical audit. He also presents lectures on electrical apparatus and the protection system. He was Vice-Chairman of MyENC (Malaysian Electro-Technical National Committee) and is a Member of Technical Committees (TCs) and Working Groups (WGs) in Standards Development.



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