

WHO SHOULD ATTEND

M & E Engineer
C & S Engineer
Plant Manager
Insurance Adjuster
BMS & SCADA Installer
Procurements, Building & Maintenance Personnel
Lightning Protection Specialist
Electrical Contractor
Competent Personnel

SPEAKER

Mr Hans Slagter, born in Holland in 1946 and has with 43 years' experience in the field of Earthing, Lightning and Surge protection. He obtained an Electrical Engineering diploma from the Vaal University of Technology in South Africa, In 1972 as an Electrical Engineer he started his first Lightning Protection Company in Africa Pontins Earthing & Lightning Protection Company Pty Ltd and became instrumental in the drafting of the first Lightning Protection Standards in Southern Africa, SABS 03 & 03A and represented South African Bureau of Standards on various IEC working group. In 1980 realized the need for internal lightning (surge protection) and started Surge Technology Pty Ltd. a surge protection manufacturing and distribution company. Soon thereafter DEHN + SÖHNE Germany, one of the world's leading lightning and surge protection companies joined forces became a stakeholder in Surge Technology. He has presented and written many technical articles and in 2008 emigrated to Australia with his entire family and is currently providing technical marketing support for DEHN Asia, Australia and New Zealand as well as participating on the Australian Standards working group responsible for revising AS/NZS 5033. From 1972 till now he has provided technical support and been involved in many industries.



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ONE DAY WORKSHOP ON PLANNING LIGHTNING PROTECTION SYSTEM (LPS) TO RISK MANAGEMENT, SEPARATION DISTANCE, AIR TERMINATION LENGTH, EARTHING ELECTRODE & SURGE PROTECTION TO MS IEC 62305 (Part 1 to 4)

6th October 2015

TEEAM Conference Room,
No.5-B, Jalan Gelugor, Off Jalan Kenanga,
55200 Kuala Lumpur

SYNOPSIS

It is critically important to design Lightning Protection and Surge Protection System adopting well proven concepts and standards. IEC62305 is one standard widely adopted or modelled upon due to its robust background. In this short course, we will look into various chapters of IEC62305. This is with specific discussions on Risk Assessment and practical implementation of Lightning Protection and Surge Protection solutions to meet IEC62305 Part 3 and Part 4 requirement. We will also demonstrate the usage of software to perform Risk Assessment (according to IEC62305 Part 2) and calculation of Separation Distant (accordingly to IEC62305 Part 3).

Supported by



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**The Electrical And Electronics
Association of Malaysia**

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Pending for
CPD/PDP Hours
& CCD Points

PROGRAMME & WORKSHOP CONTENTS

08.30 am - 09.00 am	Registration
09.00 am - 09.10 am	Welcome Speech
09.10 am - 10.30 am	<p>General principles to be followed for protection of structures against lightning strikes including contents and persons</p> <ul style="list-style-type: none"> • DEHN company profile • Formation of lightning • Examples of damage due to lightning • Analysis damage due to lightning • Lightning protection standards & definitions • Lightning current parameters • Lightning protection system
10.30 am - 10.45 am	Tea/Coffee Break
10.45 am - 01.00 pm	<p>Risk Management principles to determine the need for lightning and surge protection.</p> <p>Protection of a structure against physical damage by means of a lightning protection system (LPS) and for protection against injury to living beings due to touch and step voltages in the vicinity of an LPS</p> <ul style="list-style-type: none"> • Lightning risk assessment, Separation distance calculation • External lightning protection system & rolling sphere • LPS down-conductors • Earthing system for lightning protection • Examples of separation distance calculation • HVI conductor system • Practical example of the use of HVI conductor system in hazardous areas

01.00pm - 02.00pm	Lunch Break
02.00pm - 03.45 pm	<p>Design, installation, inspection, maintenance and testing of electrical and electronic system protection (SPM) to reduce the risk of permanent failures due to lightning electro – magnetic impulse (LEMP) within a structure</p> <p>Surge protection against indirect and direct effects of lightning or others transient over voltages for devices connected to 50/60 Hz a.c power circuits and equipment rated up to 1000 V r.m.s.</p> <ul style="list-style-type: none"> • Lightning protection zone concept • Selecting the correct Class of SPDs<1000V • SPD follow-on current limitation • Energy coordination of surge arresters • Function of a Class II type SPD • Back-up fuses and disconnectors for SPDs • Short circuit protection of SPDs • SPDs with integrated back-up fuses • Installation of power supply SPDs • Retro fitting of SPDs
03.45pm - 04.00 pm	Tea/Coffee Break
04.00pm - 04.45 pm	<p>Surge protection of telecommunications and signaling networks against indirect and direct effects of lightning or other-transient over voltage.</p> <ul style="list-style-type: none"> • Categories of SPDs for use in information technology systems • “Fall-safe” behaviour of surge protective devices for information technology systems • Example of SPD in a hazardous process plant.
04.45pm - 05.00 pm	Q & A

Registration

I hereby confirm my registration for 6th October 2015 workshop at TEEAM Conference Room, No.5-B, Jalan Gelugor, Off Jalan Kenanga, 55200 Kuala Lumpur (seats for the workshop are limited):

Name _____
(as per IC for issuance of certificate of attendance)

Designation _____

Company _____

Address _____

Postcode _____

Town/City _____

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FEES (including GST)

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For details contact Ms Thila at 03-9221 4417
Post OR email Registration Form to thila@teeam.org.my



Acceptance of registration is at the discretion of the supporting organisation