

# MAINTENANCE OF ELECTRICAL INSTALLATION AND CONDITION MONITORING IN COMPLIANCE WITH SS538

The Electricity (Amendment) Bill 2018 was passed in Parliament on 1 Oct 2018 and comes into operation on 3 May 2019. This course will dissect the amendments and discuss how they may impact the work and services of developers, consultants, site staff, contractors and LEWs.

## INTRODUCTION

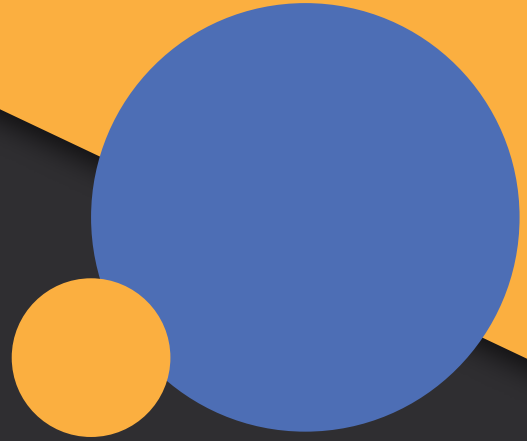
This short course is structured to introduce participants to the maintenance and condition monitoring of electrical installation. The course is conducted through lectures and case studies to enable the participants to have a clear understanding of various regimes in electrical installation maintenance and the application of cost-effective condition monitoring techniques to actively monitor the health status of the electrical installation, and take appropriate actions timely to minimise the risk of potential blackout which could have adverse impact on business operations and personal safety. The relevant law and Regulations, the code of practice and safety procedures as regards the maintenance of electrical installation will also be discussed.

## OBJECTIVES

The participants will learn through this short course the key regulatory frameworks pertaining to the maintenance of electrical installation. The participants will be guided through the maintenance concept, the requirements under SS538: 2008 COP for Maintenance of Electrical Equipment of Electrical Installations and the application of condition monitoring techniques to optimise the asset utilisation as part of the asset management strategy.

## OUTLINES

1. Statutory requirements on maintenance of electrical installation and case study (1/2 day)
  - Highlights of Electricity Act, WSH Act and Regulations
  - Safety co-ordination, isolation and earthing procedures in Tx Code
  - High Court Judgment on electrical installation incident
2. Maintenance concept of electrical installation (1/2 day)
  - Equipment failure and the consequence
  - Common factors leading to electrical installation failures
  - Various maintenance activities
  - Types of maintenance
  - Safety coordination
3. Understanding SS538:2008 (1/2 day)
  - General requirements for an electrical installation
  - Criteria of maintenance and 10 maintenance approaches
  - Maintenance of high and low voltage switchgear
  - Maintenance of transformers
4. Safety Interlocking Systems, Protection Requirements for customer installations and Condition Monitoring (1/2 day)
  - Maintenance of high voltage cables
  - Precautions to be taken when carrying out cable joints and terminations
  - Understanding various switchgear interlocking systems
  - Understanding protection requirements
  - Switching operation for maintenance works
  - Overview of condition monitoring techniques for switchgear, transformers, and cables
  - Asset management strategy and condition monitoring



## COURSE DIRECTORS

Er. Nicholas Lee Poh Choo PEng, BEng (Electrical), Consultant, Carlo Solutions. Er. Lee has more than 40 years' experience in the public utility sector, holding several senior positions when he worked in SP Power Grid. He was involved in the predictive and conditioned based maintenance to improve network reliability and power quality in the power distribution network. Er. Lee is experienced in the operation of power generators; as well as planning, development and management of electrical transmission and distribution networks. He had carried out consultancy works for utility companies in India, China, South Africa and the Middle East.

Mr HC Lim BEng (EE), MSc (IE), LLB (Hons), BSc (Economics) Hons, PEng, C.Eng, Sr MIES, MIET, ACS, ACIS is Principal Consultant of Pinnacle Engineering and Management Consultancy, a translator, an advisor for parties in adjudication as well as a certified ACTA trainer and assessor. He also holds Dip BA, SDipECT, SDipFMA, ADipMD, CDipAF and GCIA. In dispute resolution aspect, he is a SOP accredited adjudicator, fellow of the Singapore Institute of Arbitrators and an accredited mediator of SISV Panel of Mediators. He was Director (Contracts) of the Network Development Division, SP PowerGrid before venturing into training and management consultancy services. He has had more than 30 years experience in the transmission and distribution network development, operations and maintenance, street lighting operations, management of safety and security units and support services for the company's operation.

**3 - 4 OCTOBER 2019**  
**9.00AM TO 5.00PM**

HDB Centre of Building Research, 10 Woodlands Ave 8,  
Singapore 738973

S\$790 Nett

**GROUP DISCOUNT: SIGN UP 2 DELEGATES AND 3RD  
ONE ATTENDS FREE**

- Refreshment and lunch will be provided
- Complimentary parking lots are available on first-come-first-served basis

**CPD POINTS**

**PEB Points - 12 PDU**

**REGISTER HERE:**

<http://bit.ly/Register-Maintenance-of-Electrical-Installations>

For assistance please call or WhatsApp

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