MAINTENANCE OF ELECTRICAL INSTALLATION AND CONDITION MONITORING IN COMPLIANCE WITH SS538

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

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

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 condition 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, P.Eng, 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 GDA. 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.

28 - 29 MARCH 2019
9.00AM TO 5.00PM
HDB Centre of Building Research, 10 Woodlands Ave 8, Singapore 738973
SS790 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:
LEW PREPARATION COURSE  
(LICENSED ELECTRICAL WORKER)

* SSG Approved Courses  
Eligible for SSG & SkillsFuture Credit  
(T&C apply)

Course Objectives
This one-day short course aims to inculcate attendees with a vast knowledge of the act which governs the Electrical industry, namely the Singapore Electricity Act chapter 89A, along with the various code of practice such as CP5 and CP88. The other highlights of the course is kept as interactive as possible in terms of relevant knowledge sharing accompanied with animated testing procedures so as to effectively impart relevant knowledge to the attendees.

Learning Outcomes
Attendees will acquire knowledge on the following areas:

Module 1: Overview of Electricity Act and Relevant Regulations

Module 2: Guidelines on Application Procedures for Premises Supply Connection

Module 3: Types of Earthing Systems

Module 4: Key Points for Codes of Practices: CP5, CP88 Part 1 & 2

Module 5: Small Installation Inspection and Testing

Module 6: Testing of Main Switchboard

Module 7: Question & Answer for Course Review

Trainer
Er. Siah Gim Lee (22kV LEW) He graduated from National University of Singapore in 2003 and is an Electrical Professional Engineer and 22 kV Licensed Electrical Worker certified by Energy Market Authority (EMA). Er Siah has more than 14 years of working experience and has provided PE/LEW services in various industries such as petrochemical, semiconductor, pharmaceutical and commercial. He enjoys teaching and is passionate in sharing his working experience and electrical engineering knowledge to enlighten students.

14th March 2019  
(Wednesday)  
9.00am – 5.00pm  
HDB Centre of Building Research, 10 Woodlands Ave 8, Singapore 738973  
*SGD 590 nett (Fees before grant)

CPD Award
PEB Pending

*SSG funding is available for this course. Prior to registration, companies are required to enrol their staff (Singaporean or Singapore Permanent Resident) through the SSG’s SkillsConnect system @ www.skillsconnect.gov.sg. Eligible applicant only pays the balance of course fee after SSG course fee support.

• Certificate of attendance will be awarded to all participants
• Lunch and Refreshments will be provided
• Complimentary parking lots are available on first-come-first-served basis.

REGISTER ONLINE:  

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