

7-8 DECEMBER 2009

PARKROYAL HOTEL
KUALA LUMPUR

A 2-day program on

Fundamental Requirements of ***ELECTRICAL DESIGN CRITERIA***

FOCUSING ON:

- Electrical Supply System
- Maximum Demand & Load Estimation
- Design of Electrical System for Large Installation
- Sizing of Circuit Breakers (MCB & MCCB)
- Selection of Residual Current Devices (RCD)
- Sizing of Live Cables
- Sizing of Earthing System
- Setting for Protection System

PLUS

Examples & Case Studies

AFTER ATTENDING THIS PROGRAM, YOU WILL RETURN TO YOUR JOBS...

- Being exposed to the latest technology on electrical design
- Getting up-to-date requirements on design, operation and maintenance of an electrical installation
- Understanding the criteria for sizing and selection of circuit breakers and cables
- Better understanding of the selection of residual current devices

Day One

Monday, 7TH December 2009

9:00 **INTRODUCTION TO ELECTRICAL SUPPLY SYSTEM**

- Rated Full Load Current & Rated Trip Rating of Circuit Breaker
- Fault Current & Rated Short Circuit Breaking Capacity of Circuit Breaker

10:30 Morning Coffee

10:45 **MAXIMUM DEMAND & LOAD ESTIMATION**

- Maximum Demand & Diversity Factor
- Methods of Load Estimation
- Design of Electrical System for Large Installation

1:00 Lunch

2:00 **SIZING OF CIRCUIT BREAKER (MCB & MCCB)**

- Sizing of Breakers for Normal Loads

- Sizing of Breakers for Motor Loads
- # Examples & Case Studies

5:00 Afternoon Tea & End of Day One

Day Two

Tuesday, 8TH November 2009

9:00 **SELECTION OF RESIDUAL CURRENT DEVICES (RCD)**

- ELCB
 - ELR
 - EPR
 - Setting for RCD
- # Examples / Case Studies

10:30 Morning Coffee

10:45 **SIZING OF LIVE CABLES**

- Cable Selection
 - Current Carrying Capacity
 - Voltage Drop Consideration
 - Short Circuit Consideration
- # Examples / Case Studies

1:00 Lunch

2:00 **SIZING OR EARTHING SYSTEM**

- Touch Voltage Concept
- Sizing of Main Earth Cables
- Sizing of Circuit Protective Conductors

Examples / Case Studies

3:30 Afternoon Tea

3:45 **SETTING FOR PROTECTION SYSTEM**

- DTC Relays (O/C & E/F)
- IDMTL (O/C & E/F)

Examples / Case Studies

5:00 End of Program

THE PROGRAM WILL BENEFIT

- Electrical Engineers
- Electrical Contractors
- Facilities Managers
- Maintenance Engineers & Personnel
- Project Engineers
- Designers
- Safety Personnel
- Service Engineers
- Technical Managers
- New Engineers

PROGRAM FACILITATOR

MR NG NAM WAH, BE (Mech & Elect), P.Eng, FIES, EMA Authorised HT Switching Engineer is a consulting engineer in private practice.

He graduated from Sydney University in Mechanical and Electrical Engineering and worked with the Sydney County Council as well as the Electricity Commission of New South Wales. Then he joined the Public Utilities Board, Singapore where his experience has been mainly in the Transmission and Distribution area in which he rose to the post of Chief Transmission and Distribution Engineer.

Mr Ng has contributed significantly to the Standardisation work in Singapore, having served in the Standards Council of the Singapore Institute of Standards and Industrial Research. It was during his term as Chairman of the Electrical Engineering Industry Standards Committee that the first Singapore Standard CP5 was produced.

Mr Ng was also the coordinator of the Asean Heads of Utilities Working Group on Standardisation for more than 12 years.

Prior to his retirement, he headed the regulatory unit of the Electricity Department.

METHODOLOGY

Interactive lectures, group discussions, examination of case studies, examples and Q & A session

FUNDAMENTAL REQUIREMENTS OF ELECTRICAL DESIGN CRITERIA

7-8 DECEMBER 2009 | KUALA LUMPUR

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HOW TO REGISTER

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POST TO: Lot 7.03, 7th Floor, North Block,
The Ampwalk, 218 Jalan Ampang,
50450 Kuala Lumpur

FEES

The full Registration Fee includes cost of all sessions, luncheon, coffee/tea & documentation.

1 Person	Group fee per person for 3 or more* (from the same company)
RM2695	RM2395 (MIN SAVINGS OF RM900)

* Terms and conditions apply.

Cancellations, Refunds & Transfers: A full refund will be promptly made for all written cancellations 3 weeks before the meeting. Thereafter, cancellations are not refundable. A substitute may be made at any time.

PAYMENT

By Telegraphic Transfer

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A/C No: **3 - 0903390 - 12**

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BRANCH: Grd Floor, Menara Public Bank
Jalan Ampang

swift code: PBBEMYKL

TT must include additional RM75 for Beneficiary's Bank charges. Delegates must bear all bank charges and local taxes (if applicable). Fees must be NETT of ALL charges.

CHEQUES: Crossed & payable to

"Centre for Management Technology Sdn Bhd"

CERTIFICATE OF COMPLETION

A Certificate of Completion will be awarded upon successful completion of each course. This serves as evidence of your personal and professional commitment to your career.

COURSE TIMING

Registration: 8.30 am, Course Begins: 9.00 am,
Morning Coffee: 10.30 am,
Lunch: 1.00 pm to 2.00 pm,
Tea Break: 3:30 pm, Course Ends: 5.00 pm

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