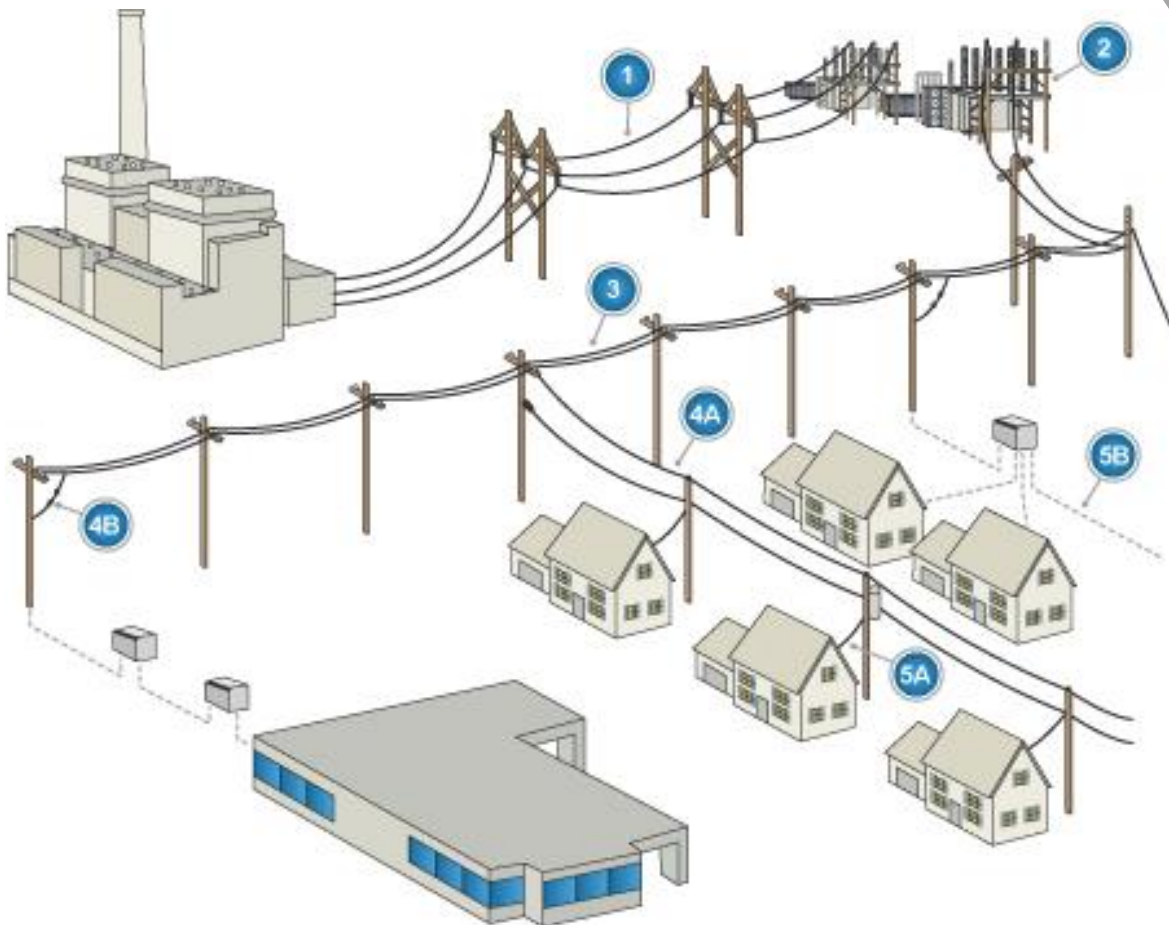




Asia Masters Center

Design Of Modern Electrical Distribution Systems



Design Of Modern Electrical Distribution Systems

➔ Course Objective

- The behavior of Modern Electrical Distribution Networks
- Constraints on Distribution Network Design
- Choice of Correct Components and Network Layouts the design and functionality of financial models in Excel
- Use powerful functions built in to Excel for statistical and financial analysis
- Apply financial analysis techniques to improve investment decision-making.
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➔ Target Audience

- Engineers and Technicians from Electrical Transmission and Distribution Utilities

- Personnel who require a broad understanding of Distribution Network Design due to their employment in related activities, e.g. government agencies, loan agencies etc.



Course Outline

- The challenge of risk and uncertainty in modern business
- Basics & Fundamentals Review.
- Overview Distribution systems.
- General Design Considerations.
- Loads: types, and estimations.
- Equipment design constraints:
- Current Rating
- Short circuit
- Power quality Problems
- Modeling of Distribution Elements.
- Studies on Distribution networks.
- Load Flow studies & Computer methods.
- Short circuit, PU & Symmetrical components.
- MVA method to calculate 3-phase short circuit current.
- Related IEC 60909, 61363 & ANSI C37.
- PQ & Harmonics and related IEEE 1159 & 519 standards.
- Power cable: Sizing (based on VD, short circuit & earth fault), de-rating factors.
- Voltage drop calculations.
- Power Factor correction & reactive power compensators.
- Distribution Transformers features & Sizing.
- LV & HV Switchgear preliminary design steps.
- Protection overviews.
- Shunt capacitors & Series reactors.

- Isolated networks & different schemes of power system architectures. Open & Closed RMU.
- Test Cases using ETAP/CYME/SKM software.

➤ **The Feature Of Asia Master Training And Development Center**

- we pick up the customer from the airport to the hotel.
- we give the participant training bag includes all the necessary tools for the course.
- Working within groups to achieve the best results.
- All our courses are confirmed and we do not postpone or cancel the courses regardless of the number of participants in the course.
- We can assist you in booking hotels at discounted prices if you wish to book through us.
- We offer the certificate from Asia Masters Center for Training and Administrative Development.

➡ **The Cost Of The Training Program Includes The Following:**

- 1) Scientific article on flash memory.
- 2) Training Room.
- 3) Training.
- 4) Coffee break.
- 5) The training bag includes all the tools for the course.

Price (USD)

**Communicate with the training department
to know the participation fees**

➤ **There are offers and discounts for groups**

The details of the bank account

Bank name: CIMB Bank Berhad

Account name: Asia Masters Center SDN. BHD

Bank account number: 80-0733590-5

Swift code: CIBBMYKL

IBAN: Null