



# United Engineering Services

Consultancy, Energy Audit, Instrumentation, Maintenance Management System, Safety Audit, Technical Audit and Trainings



## Pakistan Engineering Council Continuing Professional Development (CPD) Approved Training Program

### Electrical Power Distribution (Design & Maintenance)

### At Regent-Plaza Hotel, Karachi

Wednesday & Thursday 24<sup>th</sup> – 25<sup>th</sup> May 2017

CPD Point "1"

#### Objectives:

- A perfect design will save energy cost as well as maintenance cost & save down time.
- This workshop will give guideline & practical application of design concept in industry.

#### Who Should Attend:

- Senior & middle managers, engineers and all those who are responsible or associated with maintenance, design and modification of electrical system.
- Engineer from process industries such as Fertilizer, Cement and Chemical Plant etc. will be more benefited.

#### Workshop Fee:

Fee for program is  
**Rs. 19,500/- per participant**  
 which includes workshop material, certificates, and refreshments.  
 Please send your nomination(s), along with the workshop fee, before May 23<sup>rd</sup>, 2017 Payment should be made in favor of "United Engineering Services."

#### Timing:

09:30 a.m. to 04:30p.m.

#### Workshop Contents:

- 1 General principles of planning**
  - i) Objective
  - ii) Alternatives
  - iii) Premises
  - iv) Evaluation
  - v) Decision making
  - vi) Implementation
- 2 HV/LT industrial network management**
  - i) HV/LT transmission & distribution
  - ii) EHT/LT/HT for industrial network
- 3 Design concepts**
  - i) Lighting level
  - ii) Basic parameters
  - iii) Basic components
  - iv) Substations
  - v) Transformers
  - vi) Illumination
- 4 Switchgear & control**
  - i) Fuse selection
  - ii) Contactors selection
  - iii) Circuit breakers selection
  - iv) Protection of equipment
- 5 Safety consideration**
  - i) Classified area
  - ii) Hazardous location
  - iii) Tagging
  - iv) Safety of personnel
  - v) Energy isolation
  - vi) Work permit
- 6 Power factor**
  - i) Power factor & its importance
  - ii) Design of power factor improvement plant
- 7 Grounding / lightning design**
  - i) Methods
  - ii) Design of system
  - iii) Selection criteria
  - iv) Grounding for static charges
- 8 Harmonics in industry**
  - i) Basic concept
  - ii) Limitations
  - iii) Solutions

In view of the increasing pace of change, United Engineering Services brings you learning Programs for Improvement of Technical Skills. Individuals who endeavor to improve themselves must attend the events. United Engineering Services, made possible through Learning Bites.



The distinguishing features of Learning Bites are:-

- They are designed to be an easy and learnable material.
- They are highly pocket friendly opportunity, and above all,
- They are digestible, accessible, and affordable.



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**Early Bird Discount:** 10% per participant (Before 22<sup>nd</sup> May 2017)

**Multiple Nominations:** Three or more nominations are entitled for a further discount 10% per participant.

#### Note:

If any participant requires CPD Certificate. **20%** Extra fee will be charged