



# 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

## Optimization of Electrical Energy

**At Regent-Plaza Hotel, Karachi**

**Wednesday & Thursday 17<sup>th</sup> – 18<sup>th</sup> May 2017**

**CPD Point “1”**

### Objectives:

- Awareness in energy conservation to reduce energy bill and increase profitability.
- This workshop has been designed to help companies to adopt conservation techniques.

### Who Should Attend?

- Senior, middle managers, engineers, and all those who are responsible for energy utilization and operations.

### 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 16<sup>th</sup>, 2017 Payment should be made in favor of “**United Engineering Services.**”

### Timing:

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

### Workshop Contents:

#### **An Overview of General Energy Utilization**

- Basic philosophy
- Historical analysis
- Preliminary energy survey for future investigation
- Detail technical assessment

#### **Tools and Techniques**

- Lighting system
- Lighting level v/s needs
- Efficient lighting fixtures
- Installation and maintenance
- Efficient lamp and ballast
- Lighting control
- Cost benefits
- Power supply optimization and control
- Power factor
- Distribution
- Losses
- Maintenance
- Electric motor and drive system
- Motor sizing
- Maintenance
- Motor selection
- Effects of harmonics

#### **Developing the Financial Case**

- Financial feasibility methods
- Energy auditing
- Energy costs, rate structures and scheduling
- Energy monitoring and targeting

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 12<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