



United Engineering Services

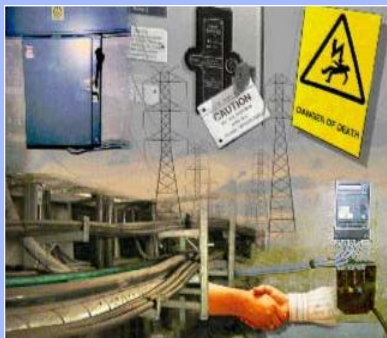
Electrical Consultancy, Technical Training, Process Instrumentation, Project Management, Energy Audit, Maintenance Management System

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.



For more information's and details contact:

Mr. M. Junaid Asif:

Ph: (021) 35805163, 35405495, 36010208

Fax: (021) 35313968

E-mail: info@ues-electrical.com

Web: www.ues-electrical.com

Address: 2-C, Mezzanine Floor, 15th Commercial Street Phase II (Ext.) DHA.

Protection of Electrical Network and Equipment

Objectives:

- To provide guidance, knowledge and principles of effective commissioning, fault finding and electrical protection.
- Workshop will be of an interactive nature. It will also give the management staff and HSE (Health, Safety, and Environment) department knowledge of protection environment.

Who Should Attend?

Design Engineers, Engineering Managers, Industrial Managers, Electrical Maintenance Personnel, Operations Management Personnel, Consulting Firms, Electrical Contractors, Electricians, Engineering and Technical Personnel etc.

Workshop Fee:

- Fee for program is Rs. 19,500/- two day, which includes workshop material, certificate.
- Payment should be made in favor of "United Engineering Services"

Timing:

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

Workshop Contents:

- 1. Electrical network protection**
- 2. Coordination study**
- 3. Fault calculation**
 - 3.1. Percentage impedance
 - 3.2. Short KVA method
 - 3.3. Per unit method
- 4. Grounding**
 - 4.1. System grounding
 - 4.2. System grounding
 - 4.3. Equipment grounding
 - 4.4. Grid / substation grounding
 - 4.5. Static grounding
- 5. Lightning protection**
- 6. Harmonics**
 - 6.1. Causes
 - 6.2. Implications
 - 6.3. Solutions
- 7. Cable protection**
- 8. Motor protection**
- 9. Transformer protection**
- 10. Generator protection**
- 11. Safety consideration**
 - 11.1. Equipment safety
 - 11.2. Personnel safety
- 12. Electrical software applications**
 - 12.1. Ecodial
 - 12.2. Terasaki