

Course Overview:

This five days course gives an insight to the subject of UPS (Un-interruptible Power Supply) systems. The subject of "power quality" is discussed and the need for UPS System is emphasized. The basic circuits for UPS system are explained and also various configurations shall be discussed. The concept of supply reliability is discussed and the various factors affecting reliability are presented.

Course Objective:

- To present and appreciate the concept of UPS and the types of "Critical loads" which need a UPS supply.
- To assist the practicing engineer in selecting a suitable UPS the various factors, which affect the selection of a suitable UPS, are discussed in detail.
- To discuss the selection of a suitable UPS configuration and its impact on the reliability of the system

Course Outline:

- Introduction To Ups Systems
- Three General Types Of UPS's
- Three Types Of Static UPS's
- Ups Operation Overview
- Introduction To Batteries
- Lead Acid Batteries
- Nickel Cadmium Batteries
- Passive Electronic Components
- Semiconductors
- Logic Gates
- Operational Amplifiers
- Ac To Dc Conversion
- Dc To Ac Inversion
- Ups System Overview
- Ups System Troubleshooting

Who Should Attend:

Electrical Engineers and technicians should benefit from this course. Electrical Engineers Involved in writing specification and evaluating submitted tenders by UPS supplies should find this course quite beneficial to their professional performance. Also practicing engineers should find this course quite helpful and useful.

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation