

Course Overview:

Industrial Electrical Power Systems need a good design. A proper functioning electric power distribution system is vital to safety, maintenance, troubleshooting and the efficient operation of a modern industrial plant. The power distribution system includes high voltage utility tie circuit breakers, main transformers, medium voltage switchgear, distribution transformers, motor control centers, electric motors, variable speed drives, etc.

Course Objective:

- Power System Analysis means verifying the adequacy of the power distribution system and its components.
- Recognize coordination related disturbances and outages.

Course Outline:

- INTRODUCTION TO DEREGULATION IN POWER INDUSTRY
- DESIGN ELECTRICAL POWER SYSTEMS MORE EFFICIENTLY
- BETTER SELECT AND SIZE POWER SYSTEM COMPONENTS
- UNDERSTAND THE FUNDAMENTALS OF SHORT CIRCUIT STUDIES
- UNDERSTAND THE BASICS OF COORDINATION STUDIES
- CALCULATE OVERCURRENT DEVICE SETTINGS
- UNDERSTAND POWER SYSTEM DESIGN AND ANALYSIS
- AN OPTIMAL REACTIVE POWER DISPATCH MODEL FOR DEREGULATED ELECTRICITY MARKETS
- LOCATIONAL MARGINAL PRICING

Who Should Attend:

Electrical Engineers, technicians, operation and maintenance in the industrial, consulting, and utility fields involved in design, operation and maintenance who require knowledge of electrical system protection techniques.

Training Language:

EN / AR

Training Methodology:

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