

Course Overview:

This course is aimed at introducing the power system layout and design to utility and industrial engineers. The course will cover some of electrical layout, design, generation and operation.

Course Objective:

- To improve the skills of engineers involved in design, operation and maintenance of electrical system. A degree in electrical engineering is recommended to gain maximum benefit from the course.
- To know Principles of reading and interpreting electrical schematics

Course Outline:

- Electrical Fundamentals For Print Reading
- Read And Interpret Basic Schematics
- Reading & Interpreting Code Requirements
- Power Transmission
- System Frequency And Tie-Line Control
- Power Dispatching
- System Security
- Operating Under Abnormal Conditions
- Monitoring And Control Communications
- Transmission System Protection
- The Effect Of Deregulation On System Operation
- Power Dispatch Under Deregulation
- Interconnection Operation
- System Operator Certification (SOC)
- Generation Control And Performance
- Operation
- Power System Transactions And Coordination

Who Should Attend:

Engineers and technician involved in design, operation and maintenance of power substations. A degree in electrical engineering is recommended to gain maximum benefit.

Training Language:

EN / AR

Training Methodology:

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