

**Course Overview:**

This course presents an overview of the electrical engineering fundamentals and equipment used in the Distribution system of electric power utilities. The course is useful for new utility staff, regulators and others who need a broad introduction. The topics covered include the basic engineering principles, design issues, standards and the major components used in distribution lines and transformer stations. Discussions are included on the types of loads and energy losses in the distribution of power to customers.

**Course Objective:**

This course is devoted to develop the qualifications of Utilities Electrical Power Engineers to be capable of proper distribution system planning. This enables the engineers to develop plans for existing networks rehabilitation and expansion. As well, they will be capable of proper planning of the distribution networks in newly developing areas in the manner that these networks can supply the present and future loads at the standard voltages with the highest efficiency and supply reliability.

**Course Outline:**

- Introduction
- Distribution Network Engineering
- Electrical Equipment In Distribution Systems
- Network Operation Improvement
- Loads And Energy Forecasting
- Fault Studies
- Case Studies

**Who Should Attend:**

In general, electrical power engineers can take part in this course, preferably, those engineers who have experience in distribution systems operation and maintenance. Design and projects engineers should take part.

**Training Language:**

EN / AR

**Training Methodology:**

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