

**Course Overview:**

Many engineers do not feel confident about the design of HV transmission lines. This course focuses on basic electrical transmission lines and design concepts to meet today's demands for more integration of electrical, mechanical and civil engineering disciplines. Participants build on their existing engineering knowledge and learn to analyze and design electrical transmission lines systems needed by industrial, commercial

**Course Objective:**

- Determine the liabilities of transmission lines associated with various disciplines
- Design electrical systems in compliance with international safety codes
- Use your knowledge of overhead lines, transmission lines, and buried cable
- Understand the design of electrical transmission lines systems related to various structures
- Determine the requirements for transmission line calculations

**Course Outline:**

- Transmission line characteristics
- Electrical AC and DC transmission line systems and models
- Overhead lines
- Buried cables to transmit energy over short or long distances
- Interconnection of the high-voltage substations
- Modern power transmission lines design
- Transmission lines of very high voltages
- Electrical transmission design theory

**Who Should Attend:**

•Transmission line design engineers • Experienced engineers and those recently assigned to transmission line projects • Electrical and mechanical engineers working in the electrical power industry • Structural engineers • Consulting engineers • Design and drafting technicians

**Training Language:**

Eng

**Training Methodology:**

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