

**Course Overview:**

The goal of the course is to improve the ability of Personnel from Power Utilities, Power Generation, transmission companies & industries and Consultants responsible for engineering, commissioning, operation and Maintenance of substations to use Capacitor Banks in better way

**Course Objective:**

Upon completion of this course, students will be able to:

- appreciate the design principles and critical elements
- understand the critical elements of operation & maintenance of Capacitor Banks
- understand the do's and don't for Circuit Breakers

**Course Outline:**

- NEED OF CAPACITOR BANKS
- POWER CAPACITOR TECHNOLOGIES & CHARACTERISTICS
- EXTERNALLY FUSED,
- INTERNALLY FUSED &
- FUSELESS POWER CAPACITORS
- CAPACITOR BANK DESIGN & OPERATION
- OPERATION – DO'S & DON'T
- CAPACITOR BANK MAINTENANCE & TROUBLESHOOTING
- DIFFERENT TYPES OF CAPACITOR MEASURING
- DEVICES AND THEIR IMPACTS ON THE RESULTS,
- CAPACITANCE MEASURING TECHNIQUES
- DIAGNOSTIC AND PROTECTION
- SAFETY
- CAPACITOR BANK PROTECTION

**Who Should Attend:**

Personnel from Power Utilities, Power Generation, transmission companies & industries and  
Consultants responsible for engineering, commissioning, operation and Maintenance of substations

**Training Language:**

EN / AR

**Training Methodology:**

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