

**Course Overview:**

Battery systems applications, components, operating principles and causes of failure for vented lead acid, valve regulated lead acid and nickel-cadmium batteries.

**Course Objective:**

- Demonstrate knowledge in operation of DC systems
- Demonstrate the need for DC systems in most control equipment
- Handle batteries with care, and maintain the batteries in respective stations to the best for assured longer life, better performance and most of all availability of the battery system.

**Course Outline:**

- Introduction To Batteries
- Battery Hazards
- Battery Safety Equipment And Procedures
- Application And Scope
- Ground Fault Detection
- Battery Protection
- Battery Basics
- Battery Types and Design
- Battery Construction
- Battery Testing
- Battery Charging and Discharge
- Battery Maintenance
- Battery Test Equipment

**Who Should Attend:**

Designed for maintenance personnel that are responsible for battery systems in substations, power plants and other systems that require emergency power.

**Training Language:**

EN / AR

**Training Methodology:**

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