

**Course Overview:**

Corrosion is the gradual destruction of material, usually metals, by chemical reaction with its environment. In the most common use of the word, this means electrochemical oxidation of metals in reaction with an oxidant such as oxygen. Rusting, the formation of iron oxides, is a well-known example of electrochemical corrosion.

**Course Objective:**

- Identifying metallic facilities style, mechanism and corrosion type
- This seminar is to introduce engineers to the recent developments in the field of
- Corrosion control by cathode protection.
- Execution, planning and selection coatings.

**Course Outline:**

- Introduction
- Electrical Concepts Relevant To Corrosion
- Principle Of Cathodic Protection
- Efferent Forms Of Corrosion
- Sacrificial And Impressed Current Anodes
- Stray Current Corrosion
- Corrosion In Specific Environments
- Corrosion Protection By Coatings
- Cathodic Protection And Anodic Protection
- Corrosion Testing And Monitoring
- Cathodic Protection System Design

**Who Should Attend:**

This course is intended for engineers and technicians from power utilities and electrical distribution. Participants must be concerned with corrosion prevention but do not have the necessary background knowledge. Very extensive use of case histories and practical examples in this course has reduced the corrosion theory to a minimum so that any technical personnel will be able to appreciate the technical know-how of preventing corrosion by materials selection and design.

**Training Language:**

EN / AR

**Training Methodology:**

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