

Course Overview:

This metallurgy and corrosion short course aims to provide the participants with an understanding of why and how corrosion occurs, the metallurgical and environmental factors influencing corrosion, and practical methods of corrosion control and failure prevention. Participants will be able to grasp the basic concepts related to corrosion, metallurgy and failure analysis, and to apply the state of the art technology in their workplace.

Course Objective:

The course presents a systematic approach to fault diagnosis and failure prevention. It firstly adopts a general approach to machine deterioration, the mechanisms involved and the ways in which common deteriorative modes can be combated. It then turns to component-oriented studies of failure mechanisms in common items of plant analysis.

Course Outline:

- Basic Concepts in Corrosion
- Metallurgy and Corrosion
- Weldment Metallurgy and Corrosion
- Failure Analysis and Prevention

Who Should Attend:

corrosion practitioners, failure analysis personnel, designers, technical managers, inspection and maintenance engineers, coatings and weld inspectors, quality control personnel and anyone who is interested in corrosion, metallurgy and materials failure analysis and its prevention.

Training Language:

EN / AR

Training Methodology:

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