



Metallurgy for the Non-Metallurgist

Date	Venues	(\$)Fees	Book your seat
21 Dec -25 Dec 2025	Bahrain	2900	Register Now

Course Overview

This highly relevant Seminar is intended for maintenance and machinery engineers, supervisors, technologists and technicians involved in machinery operation, maintenance, condition monitoring and troubleshooting. Because the methods and examples are generic, personnel from all industries will benefit.

The course can be used as an introduction to the field of failure analysis and prevention for those wishing to specialize in this area, or as an update of the key aspects of the field for those who already work in this area.

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. For each component type or machine system, the on-line and off-line symptoms of deterioration are presented, with significant emphasis being placed upon an inspection-based approach. Statistical methods of failure analysis are presented and examples are used to demonstrate best practice in the collection, analysis and interpretation of such data. Finally, the course dwells upon the use of condition monitoring methods in a failure analysis and prevention role, and in particular upon the use of machinery vibration monitoring and analysis.

Who Should Attend?

Mechanical, Operation, Production, and Maintenance Engineers Senior Technicians, who work in power utilities, should benefit from this course. Also Senior Engineers should update and refresh their knowledge by attending this course.

Course Outline

- Introduction
- Metal Basics
- Mineral Processing
- Mechanical Properties
- Pyro-metallurgy
- Transient Conditions
- Operation Of Machines And Its Relation To Failure
- Equipment Life Time And Complete Overhauls

Training Methodology

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



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