

# The Fundamentals of Metallurgy

## Program Overview

The object of this training program is to impart Training on the Basics of Metallurgy and Trouble Shooting Metallurgical problems related to the petroleum / petrochemical / fertilizer and power generation plants.

The training will cover the basics of:-

- Elements
- Atoms/molecules/molecular structure
- Molecular structure of common metals
- Properties of metals
- Theory of crystals/crystallography
- Chemical equilibrium
- Elements of extractive metallurgy
- Metal production methods/refining
- Solid solutions
- Metal solidification and properties
- Heat treatment of metals
- Heat treatment of steels
- Metal treatment methods and their objectives
- Metal failure and measures to avert failure
- Metal forming
- Metal testing and inspection methods.

This training is designed for engineers and operations personnel of process plants, refineries and power plants, involved in operation, maintenance, inspection, and safety management.

**For any further information please contact us at:**

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