

## Mechanical insulation design and technology Z MEC-44

### Duration

Three days 18 Hours

### Who should attend?

Engineering & experienced technicians interested in using thermal insulation & refractories for reducing industrial plant heat losses or gains

### Language

Arabic, English

### Overview

This course is a refresher on basic concepts and calculations related to heat transfer & energy savings through the application of insulation. It describes the various types of thermal insulation materials available for use in industrial process plants. It characterizes thermal insulation types by their physical properties. It provides a basis for selecting the proper insulation type for particular industrial application. It describes proper installation & maintenance techniques to ensure that the thermal insulation will not degrade in service. It provides a number of case studies describing common insulation projects.

### Topics

- Introduction
- Fundamentals of heat transfer
- Insulation for low- temperature applications
- Insulation for medium – temperature applications
- High – temperature insulation & refractories
- Insulation inspection and maintenance
- Insulation shapes & configuration
- Reference tables and charts

