



شركة ميرك العربية السعودية  
MEIRC Saudi Arabia

## Heat Exchangers Mechanical Design & Specification

### Duration 5 Days

### Introduction

This course covers all topics related to Heat Exchangers design & specification .

### Who Should Attend

Mechanical engineers, Process engineer, Facilities engineers, Plant engineers and Technicians

### Course Objectives

Upon completion of this course, participants will be able to know:

- Designing, specifying and comprehending the basics of fabrication for heat transfer equipment used in the petroleum industry/
- Identifying and selecting the most appropriate type of heat transfer equipment for the application/
- Developing an understanding of the process design calculations for sizing and positioning heat transfer equipment/
- Preventing common problems with heat exchangers

### Course Outlines:

- Heat Transfer Principles
- Materials and Material Selection
- Corrosion and Corrosion Control
- Fluids Behavior
- Design Process and Considerations
- Shell and Tube Exchangers
- Plate Exchangers
- Brazed Aluminum
- Air Coolers
- Fired Heaters
- Interface to Piping Systems
- Control Systems in Heat Transfer Applications
- Operating and Maintenance Considerations