

## Heat Transfer Equipment Z MEC-23

### Duration

Three days 18 Hours

### Who should attend?

This course is ideal for chemical and mechanical engineers who are engaged in plant operations, technical services, and project design; or with assignments involving heat exchanger sizing, specification, or operation



### Language

Arabic , English

### Overview

Explore recent developments in Heat Transfer Equipment thermal design of shell and tube exchangers, air-cooled heat exchangers and re-boilers. Also learn how to diagnose and correct operating problems You require a working knowledge of recent developments in heat transfer equipment technology and in the diagnosis and correction of operating problems This course Cover most types of heat transfer equipment: heat exchangers - Steam boilers; Super-heaters, Reheaters Economizers, Air pre-heaters, Condensers, Cooling towers, Evaporators and Desalination units Examine in detail shell-and-tube heat exchanger technology—with practical tips on how to minimize fouling and improve chances of trouble-free operation Besides the course will Cover other types of exchangers, including gasketed plate, spiral plate, and air-cooled equipment and provide participants with better understanding of the thermal design of shell-and-tube heaters, coolers, column re-boilers, and condensers This course will teach participants Learn how to troubleshoot, diagnose, and correct operating problems, particularly distillation column re-boilers and condensers

### Topics

- Introduction
- Principles of heat exchangers design
- Steam boilers theory and design
- Super-heaters
- Re-heaters
- Economizers
- Air pre-heaters
- Condensers
- Cooling towers
- Evaporators and Desalination units

- Improvement of heat exchange systems
- Industrial heat exchangers
- Operation and maintenance of heat exchange equipment