



شركة ميرك العربية السعودية
MEIRC Saudi Arabia

Refrigeration System

Duration 5 Days

Refrigeration System

Course Objectives

- Describe the basic functions of Refrigeration system.
- Describe the principle of heat transfer.
- Describe the major components of Refrigeration system.
- Describe how Refrigeration system work.
- Describe operation and controlling of Refrigeration system.

Course Outline:

Introduction to Refrigeration system.

- The basic functions of Refrigeration system.
- Introduction heat transfer Categories & effect of each Category.
- States of matter.
- Change phase by latent heat.

Basic Components of Refrigeration system.

- The major components of Refrigeration system and each component's function.
- The accessory components of Refrigeration system and each component's function.

Refrigeration terms definition.

- Temperature scales and heat terms.
- How Refrigeration system work
- Mollier charts or Pressure-Enthalpy diagrams.
- How Heat pump works.
- Balance point and COP

Refrigeration system controller.

- Thermostatic controller.
- Pressure controller.
- Operating and safety control.
- Pump down system.
- Relay, contactor, Starter.
- Lock out circuit.