

# MECHANICAL COURSES

## HEAT EXCHANGERS (M10A)

**OBJECTIVE:**

This seminar provides information on the fundamentals of different types, construction operation and troubleshooting of heat exchangers.

**WHO SHOULD ATTEND?**

This seminar is recommended for operation or maintenance technicians, and supervisors.

**COURSE CONTENT:**

1. Heat Exchangers and How They Work.
2. Heat Exchangers in the Plant
3. Shell Tube Heat Exchangers
4. Direct Contact Heat Exchangers
5. Typical Heat Exchangers Maintenance Problems

**PRACTICAL TASKS:**

- Types of scales and rust on tubes
- Analyze some problems on heat exchangers tube failures.

**Duration: 5 Days**

Date:	Venue:	Cost:
Jan 3 – 7	Dammam	SR7,000
Jul 18 – 22	Abha	SR 8,000
Oct 10 – 14	Dammam	SR7,000

## HVAC (M89A)

**OBJECTIVE:**

To provide the participants with the principle knowledge of design, select and maintenance of HVAC for various applications.

**WHO SHOULD ATTEND?**

Engineers and technicians who work in the field of refrigeration and air conditioning

**COURSE CONTENT:**

- Indoor environmental health
- Duct design
- Comfort air conditioning
- Energy resources
- Thermal storage – control of gaseous
- All water systems
- Air diffusing equipment
- General components: compressors, condensers, cooling towers liquid coolers & pumps
- Applied package equipments

**Duration: 5 Days**

Date:	Venue:	Cost:
Apr 25-29	Dammam	SR7,000
Sep 26-30	Riyadh	SR 8,000
Dec 26-30	Dammam	SR7,000