

MECHANICAL COURSES

AC&R TROUBLESHOOTING (M11A)

OBJECTIVE:

This seminar provides knowledge and skills in inspection, maintenance and troubleshooting of AC & R systems.

WHO SHOULD ATTEND?

This course is recommended for anyone involved with the maintenance of AC & R systems.

COURSE CONTENT:

- AC&R Overview
- Heat and Matter
- Basic Refrigeration Cycle
- Air Properties & Simple Psychometric
- Instrumentation and Test Equipment
- Air Fans
- Physical Properties of Refrigerants
- Air Ducts and Filters
- Refrigerants Filters, Driers & Filter Driers
- A/C & R Circuit Troubleshooting
- Troubleshooting Electric Controls

PRACTICAL TASKS:

- Identifying AC & R components.
- Using psychometric chart
- Practical calculation of relative humidity dew point temperature, Specific humidity and enthalpy of air.
- Using A/C & R laboratory model in lab for checking high & low side operation and calculation of air properties passing through the evaporator.

Duration: 5 Days

Date:	Venue:	Cost:
Mar 15 – 19	Dammam	SR6,000
Aug 16 – 20	Dammam	SR6,000

AIR CONDITIONING MACHINE OPERATION (M86A)

OBJECTIVE:

To provide the participants with the knowledge of air conditioning machine operation.

WHO SHOULD ATTEND?

Engineers and technicians who work at the field of refrigeration and air conditioning.

COURSE CONTENT:

- General considerations
- Purposes
- Common factors
- Compressors
- Condensers
- Cooling towers
- Liquid coolers
- Centrifugal pumps
- Motor and motor controls
- Room a/c and dehumidifiers
- Package equipments
- Fans
- Evaporative air coolers
- Air heating coils
- Air cleaners
- Boilers
- Classification of methods

Duration: 5 Days

Date:	Venue:	Cost:
Feb 9-13	Dammam	SR6,000
Jul 26-30	Dammam	SR6,000