

MECHANICAL COURSES

STEAM TURBINE MAINTENANCE and OVERHAULING (M53A)

OBJECTIVE:

This course provides knowledge and skills in operation, maintenance, protection and troubleshooting of steam turbines.

WHO SHOULD ATTEND?

This course is recommended for those who are involved with the operation, maintenance, overhauling and troubleshooting of steam turbines.

COURSE CONTENT:

- Steam Turbine – an Introduction
- How Heat is Converted into Power
- Power Plant Efficiency
- Construction and Principles of Operation
- Turbine Valve and Support System
- Turbine Protection and Control
- Steam Turbine Overhaul Maintenance
- Overhaul Inspection Procedures
- Periodical Inspection for Steam Turbine
- Criterion for Replacement and Repair

Duration: 5 Days

Date:	Venue:	Cost:
Feb 2 – 6	Dammam	SR6,000
Jul 5 – 9	Dammam	SR6,000

STEAM TURBINE EFFICIENCY (M32A)

OBJECTIVE:

This seminar provides knowledge and skills in increasing the efficiency of a steam plant.

WHO SHOULD ATTEND?

This seminar is recommended for anyone involved in steam turbine.

COURSE CONTENT:

1. What a Moiller diagram is composed of and how the steam expansion can be represented on it
2. Ideal steam expansion compared to the actual steam expansion
3. Changing main steam conditions on the
4. Moiller diagram and effect on cycle efficiency
5. The concept entropy
6. Using extraction steam for feedwater heating to increase efficiency
7. How desuperheating water spray impacts efficiency
8. Basic properties of steam and water and their reaction to heat
9. How the steam/water cycle can be represented on a temperature entropy diagram
10. Changing main steam and exhaust conditions to a temperature entropy diagram and the effect on cycle deficiency

Duration: 5 Days

Date:	Venue:	Cost:
Feb 23-27	Dammam	SR6,000
Aug 9-13	Dammam	SR6,000