

MECHANICAL COURSES

STEAM TURBINE OPERATION and PROTECTION (M47A)

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 and protection of steam turbines.

COURSE CONTENT:

- Steam Turbine-An Introduction
- Power Plant Efficiency
- Construction and Principles of Operation
- Turbine Valves and Support System
- Turbine Control Valves
- Turbine Protection Part I
- Lubrication Oil Protection System

PRACTICAL TASKS:

- In ISCOA workshop
- Removing the blades coating for cracks inspection.
- Using dye penetrate and developer for blades crack inspection
- Grinding cleaning, and measuring blades cracks sizes.
- Blades cracks re-welding.
- Blades reheating treatment
- Blades re coating.

Duration: 5 Days

Date:	Venue:	Cost:
May 31 – Jun 4	Dammam	SR6,000
Dec 27 – 31	Dammam	SR6,000

STEAM TURBINE PART I (M21A)

OBJECTIVE:

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

WHO SHOULD ATTEND?

This course is recommended for anyone involved with the operation and maintenance of steam turbine.

COURSE CONTENT:

1. Construction and Principles of Operation
 - Operator Responsibilities and Basic Turbine Components
 - Turbine Fundamentals
 - Turbine Construction
 - Cylinder Arrangements
 - Turbine Efficiency
2. Turbine Valves and Support Systems
 - Turbine Valves, Part I
 - Turbine Valves, Part II
 - Auxiliary Turbine Valves
 - Gland Seal System
 - Lubricating Oil System
 - Turning Gear and Exhaust Hood Cooling

PRACTICAL TASK:

In ISCOA work shop: make dynamic balance to the turbine rotor, runout, inspect for blade cracks.

Duration: 5 Days

Date:	Venue:	Cost:
May 24-28	Dammam	SR6,000
Nov 29-Dec 3	Dammam	SR6,000