

“GAS TURBINE OPERATION” Training Program (English Material)

Course Length: 25 Hours @ 5 days

OBJECTIVE:

Upgrade the knowledge and skills of participants in design , operation of the various types of Gas Turbine and Gas Turbine applications . The course is structured to address the needs of engineers and operations personnel who have a requirement to understand the principles of the gas turbine and how industrial units are configured to perform prime driver duties

DESIGNED FOR:

Engineers, Maintenance and Operations Personnel who work with gas turbines.

Course outline:

- Introduction
- Combustion (Gas) Turbine Fundamentals
- Basic Cycle
- Combustion Turbine
- Classifications
- Gas Turbine Controls Overview
- Factors Effecting Performance
- Estimating Gas Turbine Performance
- Efficiency Monitoring Program
- Performance Monitoring and Trending
- Turbine Construction & Operating Principles
- Turbine Function
- Component Description
- Turbine Flow
- Air Inlet Equipment
- Inlet Guide Vane & Casing
- Compressor Section
- Combustion Section
- Turbine Section
- Exhaust Section
- Bearings
- Compressor Spindle/Rotor
- Turbine Spindle/Rotor
- Cooling and Sealing Air

- Fuel Oil
- Fuel Forwarding System
- Gas Turbine Control Systems.
- Start Up Sequencing
- Speed Control
- Temperature Control
- NOx Systems
- Normal Operations
- Abnormal Conditions
- Alarm & Protection
- Turbine & Compressor Washing Systems
- Turbine Washing
- Compressor Washing
- Water Wash System