



Introduction To Heavy Duty Gas Turbine

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COURSE CONTENT

Aim

This course is designed specifically for power plant personnel unfamiliar with GE Heavy Duty Gas Turbines. The program will cover Gas Turbine construction, auxiliary systems and maintenance overview.

Pre-requisites

This course is designed for delegates with little experience in power generation but useful for personnel involved in the operation and maintenance of GE Heavy Duty Gas Turbines

Course Duration

The course is of 2 days in duration.

Optimum Number

Maximum of 5 delegates per course.

Training Aids

PowerPoint and information hand-outs.

Course Objectives

On completion of the course delegates shall be able to:

- ❖ Understand Basic gas turbine operating cycle
- ❖ Understand gas turbine construction features. Axial flow compressor, combustion system, turbine section and accessories.
- ❖ Understand gas turbine auxiliary systems such as lube oil system, fuel systems, starting means etc.
- ❖ Identify operating factors affecting maintenance intervals

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COURSE SYLLABUS

Introduction Video (Major Components of the Gas Turbine)

- The Basic Cycle
- Thermo-Dynamics
- General Observations

Assembly and Construction

- Turbine Base and Supports
- Compressor Section
- Combustion Section
- Turbine Section
- Accessory Gear Assembly
- Flexible Couplings
- Main Turbine Bearings
- Starting System

Operating Systems

Auxiliary Systems

Summary and review

Dates available on request