

GE LM6000 Combustion Turbines

This five-day course begins with a review of gas turbine theory. Next, the major components of the GE LM6000 turbine are described before reviewing the air inlet/filtration system, compressor, combustion system, turbine section, support systems, operations and controls, operator commands, control system, and protection system. Finally, we review common turbine failures and how to troubleshoot various turbine problems.

I. LM6000 Gas Turbine Overview VI. Gas Turbine Auxiliaries

II. Gas Turbines

- Basic Process and Components
- Modes of Operation
- GE LM6000
- Turbine-Generator Skid
- Turbine-Generator Skid External Modules
- Auxiliary Skid
- Liquid Fuel Boost (Pump) Skid
- Water Injection Skid
- Sprint Skid
- Fire Suppression Enclosure

III. Fuel Systems

- Dual-fuel System
- Gas/Water Fuel System
- Liquid Fuel System

IV. Air Intake System

- System Description

V. LM6000 Gas Turbine

- Gas Turbine Components
- LM6000 PA Gas Turbine

- Basic Components
- Turbine Lube Oil System

VII. Maintenance

- Maintenance Planning
- Maintenance Inspections
- Levels of Maintenance
- Standard Maintenance Practices