Speedtronic Mark IV Maintenance
COURSE CONTENT

Aim

This site-specific course is designed to introduce operations and maintenance personnel to the routine preventative maintenance procedures of the turbine support systems required to attain high levels of availability and reliability from the gas turbine. This course does not cover the turbine-generator disassembly inspections required for major mechanical maintenance. Operating and maintenance personnel should attend this course together to develop a working relationship regarding the routine maintenance requirements of the unit.

The training includes detailed descriptions of the turbine support systems. This includes a functional description of the system as well as the routine maintenance requirements of the system. If the course is held at the customer’s location, it will include site visits to familiarise personnel with the location of the various system components and to allow personnel to correlate the system piping schematics to the system hardware.

Pre-requisites

Control and Instrumentation Technicians and Engineers with a basic knowledge of turbine technology.

Course Duration

The course is of 10 days in duration.

Optimum Number

Maximum of 7 delegates per course.

Training Aids

PowerPoint and Information hand-outs.
COURSE SYLLABUS

- Mark IV Speedtronic Control Principles – Level 1
  Introduction to Mark IV Terminology
  Hardware
  Elementary Diagrams and Control Specifications
  System Support Software
  Mark IV Processor Structure

- Mark IV Speedtronic Control Principles – Level 2
  Sequencing Function
  Control Algorithm Representation
  Control Application Software
  Liquid Fuel Control System
  Gas Fuel Control System

- Mark IV Speedtronic Control Sequencing
  On-base Permissive Signals
  Input Signals
  Control System Sequencing

- Mark IV Speedtronic Control Calibration
  Introduction
  Speed Control Calibration
  Temperature Control Calibration
  Start Up/Shutdown Control
  Gas Fuel Control
  IGV Control
  Protection

- Mark IV Speedtronic Control Troubleshooting
  Introduction
  Recommended Practices
  Installation Procedures
  Troubleshooting
  Diagnostic Fault Techniques
  Hardware Test
  Using CRT Display

Dates available on request