



Speedtronic Mark II Maintenance

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COURSE CONTENT

Aim

This course is designed to enable engineers and competent technicians to confidently calibrate the controls and diagnose problems in Gas Turbine SPEEDTRONIC Mark II control systems. The course provides a solid background in turbine governing system circuitry. Participants increase their skills in relating machine operating requirements to the SPEEDTRONIC control which establishes the vital parameters of a gas turbine prime mover.

Pre-requisites

Personnel with a basic knowledge of turbine technology.

Course Duration

The course is of ten days in duration.

Optimum Number

Maximum of 8 delegates per course.

Training Aids

PowerPoint and Information hand-outs.

COURSE SYLLABUS

- GT Speedtronic Control Principles
 - Digital Control Elements
 - Analogue Control Elements
 - Fuel Control
 - Gas Fuel Control
 - Speed Control
 - Temperature Control
 - Master Protection
 - Digital Set point (Governor)
 - Liquid Fuel Control

- Gas Turbine Control Sequencing
 - On-Base Permissive Signals
 - MCC Sequencing
 - Input and Output Signal
 - Turbine Start Sequencing
 - Master Protection
 - Turbine Starting Means and Ratchet
 - Turbine Control Sequencing
 - Atomising and Fuel Purge

- GT Control Calibration
 - Speed Control
 - Temperature Control
 - Fuel Splitter
 - Liquid Fuel Control
 - Gas Fuel Control
 - Start-up Control
 - Ground Fault Detection
 - Vibration Protection
 - Flame Detection

- GT Control Troubleshooting
 - Introduction
 - Speedtronic Power Modules
 - Control Function
 - Protection Systems
 - Power Supply Systems
 - Panel Field Energising

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Troubleshooting

Dates available on request

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