



Speedtronic Mark V <I> Maintenance

Page 1 of 4

Roxby Training Solutions Ltd, Unit 4 John Clarke Centre, Dockside Road,
Middlesbrough TS6 6UZ
Telephone: 01642 438700
Fax: 01642 466879
j.dean@roxby.com or r.mellor@roxby.com

COURSE CONTENT

Aim

The Mark V Maintenance Course offers a curriculum that emphasises a hands-on approach to learning the process of monitoring, maintaining, improving the availability of the Mark V Control System. Upon the successful completion of the course, the participants will be able to:

- Have a good knowledge of the Mark V Control System components.
- Carry out troubleshooting and maintenance using the operator interface.
- Have a good knowledge of the Mark V documentation.
- Understand the flow of control signals in and out of the Mark V
- Carry out calibration and maintenance of servo valve regulators and feedback devices.
- Use the control sequence program to understand the control system.
- Understand the synchronizing system for generator drive turbines.
- Manage alarms and customise alarm messages.
- Understand the operator interface displays, edit and create displays.

Pre-requisites

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

Course Duration

The course is of ten days in duration.

Optimum Number

Maximum of 6 delegates per course.

Training Aids

PC Projector, Information hand-outs, TV and Video

COURSE SYLLABUS

Gas Turbine Control Fundamentals Revision

Gas turbine principles of operation
Governing system requirements

Mark V Panel Hardware

Panel layout
Cores, I/O Card, Terminal Boards
Troubleshooting
Wiring diagram

Gas Turbine Control

Startup/speed/temperature/other controls
Protection

Control Displays

User's manual

Control System Software

IDOS
File descriptions

Software Tools

Modifying and downloading control configuration
Data acquisition on Mark V interface
Software backup
CSP and Big Block Language

Troubleshooting

Gas Turbine process alarms
Mark V panel diagnostic alarms
Rung Display

Calibration Procedures (Manual and Auto)
GCV, SRV and IGV

Dates available on request

Page 4 of 4

Roxby Training Solutions Ltd, Unit 4 John Clarke Centre, Dockside Road,
Middlesbrough TS6 6UZ
Telephone: 01642 438700
Fax: 01642 466879
j.dean@roxby.com or r.mellor@roxby.com