

Mark II course

Learn the operations, maintenance and troubleshooting techniques on this control systems in a classroom environment as opposed to 2pm Friday afternoon when the demand is high and the unit won't start.

This course is intended for E/I Technicians, Engineers and Operators.

Course Outline

Introduction

- Instructor
- Course Outline
- Daily Schedule
- Questions

Gas Turbine Theory

- Simply Cycle Gas Turbines
- Performance Curves

Equipment Overview

- Gas Turbine
- Accessory Base and Auxiliary
- Equipment
- Component Description

Auxiliary Systems

- Schematic Piping Diagrams
- Device Summary
- Lube Oil and Hydraulic Supply
- Trip Oil and Control Oil
- Gas Fuel System
- Fuel Forwarding and Fuel Oil System
- Atomizing Air Systems and Purge
- Water or Steam Injection System
- Cooling and Sealing Air
- Cooling Water
- Other

Control Panel Arrangement**Test Equipment****Power Supplies****Control Principles****Control Sequences Using Elementaries****Start Up Control**

- System Description
- Drawings

Speed Control**Temperature Control****Servo Valve Drive Systems****Overspeed / Over Temperature****Protective Circuits****Calibration Procedures**

- Control Specifications
- Start Up Control
- Speed Control
- Temperature Control
- Fuel Control Mechanisms

Troubleshooting

- Routine Problems
- Case Discussions

Course Conclusion**Objectives**

After five days you will master the following objectives:

- Competently use the GE Mk-II drawings/schematics normally available on the job-site.
- Thoroughly understand the print and identification numbering system used throughout the turbine control system.
- Trace out the electrical signals throughout the control systems.
- Understand the basic theory used with summing devices.
- Understand the hydraulic servo-mechanisms.
- Given a normal change in operating conditions, describe the proper response of the control system and the response of the individual components.
- Understand the appropriate calibration procedures.
- Understand troubleshooting sequences peculiar to this control system.
- Communicate control problems in a more effective manner.

Examination & Diploma

Those who attend this course are automatically qualified to take the Certification Examination.

There are no additional expenses to participate in the exam. An 80% pass mark is required and the examination length will not exceed 2 hours.

Those who obtain a positive result will receive a diploma which is internationally accepted and accredited by IACET (International Association for Continuous Education and Training).

Specifications**Entrance requirement**

Both levels are required to participate:

- Engineer
- I&C Technician

Instructor

The Mark II course will be presented by a highly respected professional with GE field and training experience. This course will be executed in English: all training material is in English as well.

Price

The price for this course is 2.500,00 Euros per person. (VAT excluded).

Payment in advance after receipt of our invoice.

ABN-Amro Bank, Arnhem, the Netherlands

Bank account: 530028778

IBAN: NL30ABNA0530028778

BIC (Swift code): ABNANL2A

What's included?

- Training manual
- A training by a certified trainer who uses sheets for presentation.
- Lunch
- Examination

What's not included?

- Hotel & accommodation

Upon request accommodation can be booked for you, but for your own expense. The cost for an overnight stay is about 120,- euro's per night. Please mention your request for a hotel accommodation in your email.

Location and duration

The location of this course is in Arnhem, the Netherlands and has a duration of five days.

Monday	10.00 – 17.00
Tuesday – Thursday	09.00 – 17.00
Friday	09.00 – 16.00

A free lunch, coffee & tea and soft drinks are included.

Registration

Wish to participate? Please register online at www.speedtronic.com or fill in the registration form in this brochure and fax it to +31.263.684.868.

Don't forget to subscribe at least 4 weeks prior to the first course day. When registered, you will receive an order confirmation.

Cancellation

If you have subscribed and you are forced to cancel due circumstances beyond your control, you can cancel the registration according our cancellation policy below:

- Cancellation up to 6 weeks before course date: full refund
- Cancellation < 6 weeks: no refund, but the opportunity to attend next course.

We reserve the right to cancel or to defer the course to a later date in the event of too few participants. In such case a full refund will be in order.

We are not responsible for any expenses related to non-refundable airline tickets or hotel accommodations.

Further information

If you need more information about this course or other course possibilities, please don't hesitate to contact us
phone: +31.26.368.48.39
e-mail: sales@speedtronic.co