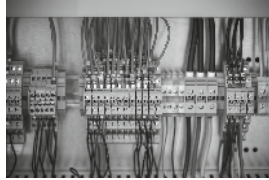


ELECTRICAL MAINTENANCE MODULE 3

Understanding of PLCs and all Associated Hardware to aid Fault Finding



WHO SHOULD PARTICIPATE?

Electrical Maintenance – Technicians / Engineers / Supervisors who are required or wish to develop their electrical maintenance competencies. Delegates must have an understanding of electrical principles and be computer literate.

PREREQUISITES

All delegates must have the below experience/knowledge to attend this course:

- Understanding of relay logic
- Use of test equipment for fault finding
- Ability to read drawings to trace I/O connections to the card

We recommended that delegates who do not meet the above criteria attend our Electrical Maintenance Module 2 course.

PROGRAMME BENEFITS

By the end of the programme participants will be able to:

- Work safely on modern industrial electrical/electronic control equipment
- Systematically interrogate a range of commonly used Programmable Logical Controllers [PLCs]
- Understand how PLCs are incorporated into modern electrical circuits
- Interpret basic levels of ladder diagrams to facilitate change
- Gain a basic understanding of variable frequency drivers [inverters]
- Carry out basic checks on variable speed drives
- Identify, understand and deal with faults involving PLCs and variable speed drives

THE PROGRAMME WILL COVER:

- Introduction to industrial electrical/electronic control equipment on state of the art industrial process simulators
- Introduction to generic ladder diagrams
- PLCs in electrical and electro-pneumatic instrument controlled circuits
- Interrogation of a range of commonly used PLCs
- Fault finding approaches on PLCs and variable speed drives
- Setting and adjusting process on PLCs and variable speed drives
- Practical fault finding on PLC controlled motor test exercises
- Fault finding without laptop versus fault finding with laptop to observe program running
- Practical fault finding on PLC controlled process rig

ASSESSMENT

Internal written and practical assessment.

Upon achievement delegates will receive an EAL certificate of verified achievement.



DURATION

5 Days

PROGRESSION

Automation & Controls - Motion and process control within automation.

OUR SERVICE LEVEL COMMITMENT

MGTS will ensure that:

- Your training and assessment programmes are delivered by Tutors highly experienced in the relevant subject matter and your industry
- The delivery of training and assessment will focus on your training objectives supported by up to date programmes and learning materials
- Your employees will receive training designed to meet their personal learning needs with additional support where appropriate
- Training programmes are delivered with your requirements as the focus ensuring total flexibility and on time delivery
- Your employees benefit from a healthy, safe and secure learning environment ensuring equality of opportunity and diversity of contribution to enhance the learning experience
- You and your employees are given support to achieve high quality personal learning and successful learning transfer to the workplace
- The confidentiality of your business development needs is maintained throughout

BOOKINGS & PAYMENTS

Bookings must be confirmed with either a purchase order or full payment to secure the booking.

New customers will be required to complete a New Customer Account form to open a credit account.

All customers will be invoiced upon booking; our standard payment terms are 30 days unless otherwise agreed in advance for credit account customers and 7 days for non-account customers.

Payment can be made by credit card or BACS/ bank transfer.

CANCELLATION POLICY

Where courses are under subscribed MGTS may cancel or re-arrange a course at their discretion. Customers will be notified no later than 10 working days prior to the planned commencement date.

MGTS accepts customer cancellations or transfers to alternative course dates, without charge up until 7 working days prior to commencement of training.

Cancellations or transfers 1 to 7 working days prior to commencement of training will incur a 50% course fee.

Cancellations with less notice than 1 working day will incur a 100% course fee.



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