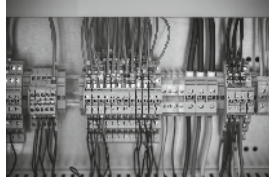


# ELECTRICAL MAINTENANCE MODULE 2

## Fault Finding of Motor Control Circuits and Equipment



### WHO SHOULD PARTICIPATE?

Mechanical Maintenance – Fitters / Technicians / Engineers / Supervisors who are required or wish to develop their electrical maintenance competencies.

### PREREQUISITES

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

- Understanding of safe isolation techniques
- Knowledge of OHM's Law
- Basic understanding of motor control components (contactors, timers, overload modules etc.)
- Basic use of electrical test equipment
- Use of insulated hand tools
- Understanding of protective devices (MCB, fuse, RCD, RCBOs)

We recommended that delegates who do not meet the above criteria attend our Electrical Maintenance Module 1 course.

### PROGRAMME BENEFITS

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

- Understand Motor Control Systems
- Fault find on conventional motor control units
- Understand Inverter drives (wiring and set up of parameters)

### THE PROGRAMME WILL COVER:

- AC Motors
- Motor Control Systems Forward and Reverse
- Star Delta Starting
- Star Delta Forward and Reverse
- Interpretation of electrical drawings, use of hand tools and test equipment and procedures
- Fault Finding Techniques
- Calculating synchronous speed of motors
- Speed control of AC motors with use of Variable Speed Drives (VSDs)
- Parameterise drive with all relevant motor data

### ASSESSMENT

Internal written and practical assessment.

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



### DURATION

5 Days

### PROGRESSION

Electrical Maintenance Module 3 - Interrogation of PLCs and Inverter Drives to aid Fault Finding and Adjustment

## 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 application form to open a credit account. Credit account customers will be invoiced upon booking; our standard payment terms are 30 days unless otherwise agreed in advance.

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

Payment must be received 7 days in advance of the course start date (for non- account customers).

## 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 without charge up to 7 days prior to commencement of training. Cancellation less than 7 days will incur a 50% course fee. Cancellations with less than 24 hours' notice will incur a 100% course fee.

Transfers to alternative course dates will not incur any additional charge to the customer if the transfer is made up to 7 days prior to commencement of training.



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