

mechanical to electrical conversion

Who should participate?

Mechanical Maintenance, Fitters, Technicians, Engineers, and/or Supervisors who need to be able to develop their electrical maintenance competences.

Programme Benefits

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

Module One:

- ▶ Work safely on electrical equipment under appropriate supervision.
- ▶ Isolate electrical circuits and carry out basic electrical tasks

Module Two:

- ▶ Fault find motor control circuits
- ▶ Understand Motor Control Systems

Module Three

- ▶ As described

Duration:

3 x 5 day modules

The programme will cover:

Module One – Safe Working & Isolation of Industrial Electrical Equipment – 5 days

- ▶ Electrical Symbols and Drawings
- ▶ Electricity at Work Regulations
- ▶ Overview 17th Edition Wiring Regulations (BS 7671:2008)
- ▶ Identification of Electrical and Electronic Components
- ▶ Use of Electrical Test Equipment
- ▶ Safe Isolation - 'Permit to Work' System

- ▶ Electrical Techniques - Use of Cables, Hand Tools, Terminators and Soldered Joints
- ▶ Direct On Line Starting

Module Two – Fault Finding of Motor Control Circuits & Equipment – 5 days


- ▶ AC Motors
- ▶ Motor Control Systems - Forward and Reverse
- ▶ Star Delta Starting
- ▶ Star Delta Forward and Reverse
- ▶ Further work involving interpretation of electrical drawings, use of hand tools and test equipment and procedures
- ▶ Fault Finding Techniques


Module Three – Interrogation of PLC's and Inverter Drives to aid fault finding and adjustment – 5 days


On completion of this course participants will be able to:

- ▶ Work safely on modern industrial electrical/electronic control equipment.
- ▶ Systematically interrogate a range of commonly used Programmable Logic Controllers.
- ▶ Understand how PLCs are incorporated into modern electrical circuits.
- ▶ Interpret basic levels of ladder diagrams to facilitate change
- ▶ Gain a basic understanding of inverter variable speed drives and make adjustments.
- ▶ Carry out basic checks on variable speed drives.
- ▶ Identify, understand and deal with faults involving PLCs and Variable Speed Drives.

Delegates will gain knowledge and experience through 'hands on' practice as well as through discussion and demonstrations.

 T: 024 7663 0333

 F: 024 7652 5029

 E: bookings@mgts.co.uk

 W: www.mgts.co.uk

www.mgts.co.uk

unlocking **potential**, delivering **performance**



our service level commitment

OUR COMMITMENT TO YOU AND YOUR COMPANY:

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

YOU AND YOUR COMPANY WILL BENEFIT:

- ▶ When you encourage your Learners to practice the skills and apply the knowledge learnt to the workplace
- ▶ When you provide your Learners with a mentor or coach to support them in applying what they have learnt to the workplace
- ▶ When you arrange for the Learner's Manager to review what they have learnt and plan for the learning to be used in the workplace
- ▶ When you talk to MGTS staff about additional support looking at the capability of your systems, organisation and individuals to successfully transfer the learning to the workplace

FEEDBACK AND EVALUATION:

MGTS are committed to delivering a service that meets our customer needs. As part of our Quality Assurance process we will contact you and ask for your feedback following the recent delivery of training and/or assessment to your employees.

When you are contacted we would very much appreciate you taking a few minutes to answer the following six questions and help us in our efforts to continuously achieve a high level of customer satisfaction. You will be asked to give a rating for each question on a scale of 1 (Not Achieved) to 10 (Fully Achieved) and provide general comments.

- ▶ Have the learning objectives for your delegates been achieved?
- ▶ Were the course objectives and content relevant to your business needs?
- ▶ Are your employees benefiting from their experiences on the programme?
- ▶ Applicable to long courses only: Are your employees making the progress that you would expect at this stage of the programme?
- ▶ Have MGTS administration and communication processes met your requirements?
- ▶ Have MGTS given you excellent customer care?
- ▶ Have MGTS provided you with a responsive, flexible training solution?
- ▶ Given your overall experience of our service, would you recommend MGTS to a colleague?

If you would like to discuss your MGTS experiences any further, please contact one of the following:

Bob Dunn, Commercial Manager

email: dunn@mgts.co.uk

Adrian Lawrence, Business Systems and Contracts Manager

email: lawrence@mgts.co.uk

HOW TO FIND US



▶ From the M1 South

Exit Junction 21 to M69

Follow M69 to Junction with M6

Take Birmingham Direction Exit M6 at next Junction 3

▶ From the M6 North or South

Exit Junction 3

Follow A444 to Coventry / City Centre in approximately 4 miles at 6th Roundabout

Take A428 City Centre. (H) hospital sign present. In 100 metres at Traffic lights take left filter into Gulson Road. (H) hospital sign present.

MGTS is 200 metres on left with yellow and black railings.

▶ From the M40 North or South

Exit Junction 15 (Warwick/Stratford upon Avon).

Follow signs A46 West to Kenilworth/Coventry.

Continue along this road for approximately 11 miles

Bear left into A423 signs to Coventry City Centre.

At next large roundabout (Ring Road Junction 4) position into right hand lane. Continue around roundabout as if heading back in direction you have come from. At sign for Whitley Village ensure you swap to left-hand lane, immediately past old sandstone building turn left into Gulson Road (signposted). (H) hospital sign present also. MGTS is 200 metres on the right with yellow and black railings.



unlocking **potential**, delivering **performance**

Midland Group Training Ltd, Gulson Road, Coventry, CV1 2JG **T:** 024 7663 0333 **F:** 024 7652 5029 **E:** bookings@mgts.co.uk www.mgts.co.uk