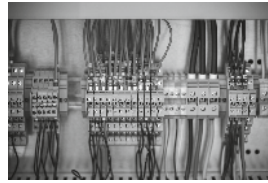
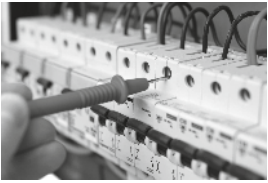


# TECHNICAL FAULT FINDING



## WHO SHOULD PARTICIPATE?

Maintenance personnel wishing to develop their diagnostic skills using root cause analysis techniques and practical fault finding tools on process equipment and systems.

## DURATION

2 Days

## PROGRAMME BENEFITS

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

- Recognise and apply appropriate fault finding and root cause analysis approaches to improve their diagnostic skills
- Recognise the benefits of improved diagnostic capability through improved KPI performance measures of overall equipment effectiveness meantime to repair and engineering stores inventory
- Compare personal fault finding performance to industry based benchmarks

## THE PROGRAMME WILL COVER:

### Introduction

- Legislation and the legal requirements for maintaining equipment
- Types of maintenance i.e. planned, unplanned
- The need for improving fault finding
- Cost / benefit model including key measures of downtime

### Fault finding approaches

- Six step approach - Half split technique, input / output technique, emergent problem analysis
- Understanding and application of 5 'Whys' root cause analysis
- Understanding and application of cause and effect analysis
- Use of the 5 senses: see, hear, touch, smell and taste
- Assessment of use of tools: mechanical or electrical faults
- Exercises in the use of these approaches; theory based example

### Understanding and locating reference material

- Schematic drawings, Manuals, Internet

### Safe isolation

- Understand the correct procedure
- Understand permit to work
- Complete dynamic risk assessment
- Demonstrate the procedure; assessment

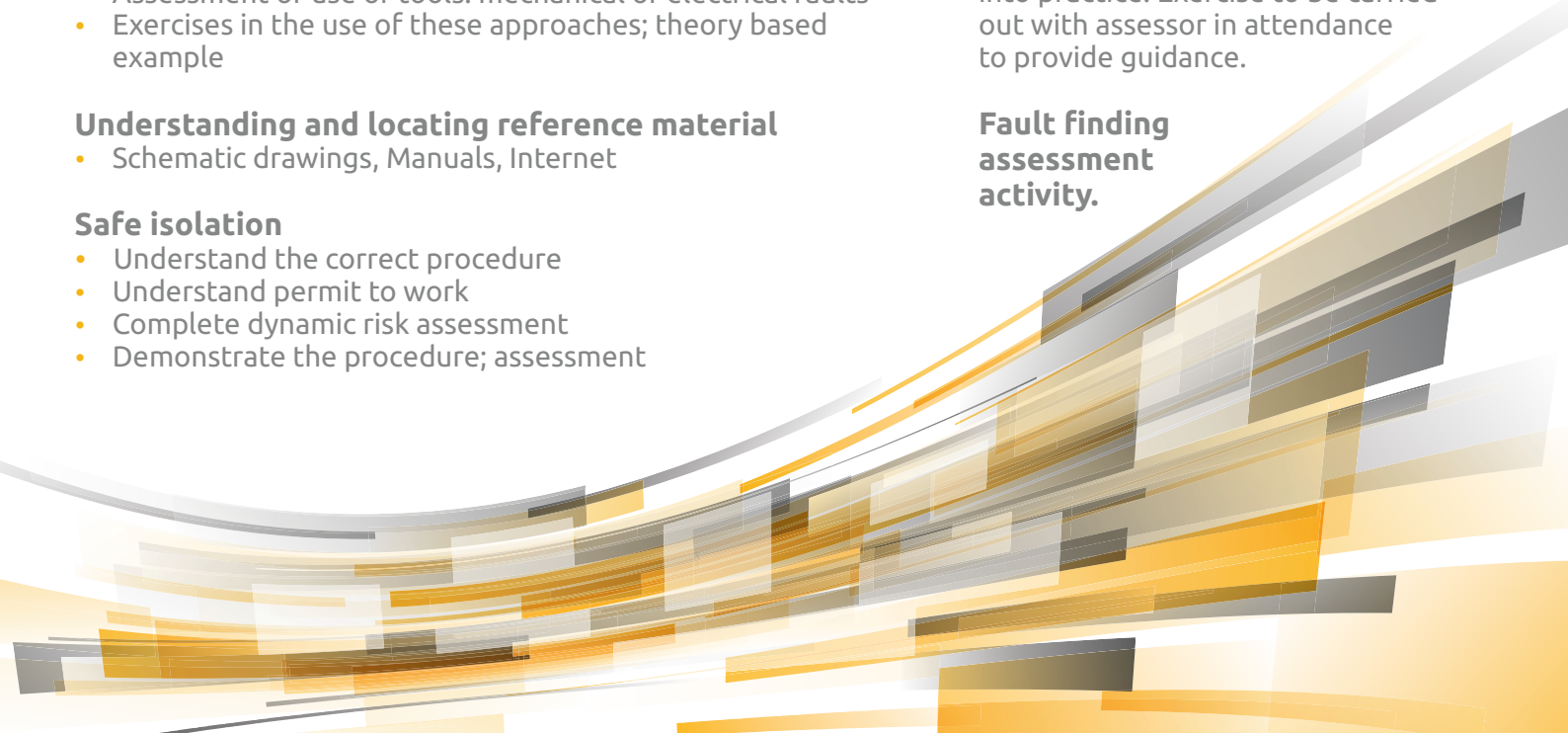
### Identify typical component faults and test procedures

- Induction motors
- Contactors
- PSUs
- PILZ safety relays
- Push buttons
- Final connections
- Exercises in the identification techniques and tests required (theory based example)

### Introduction to fault find rigs

whereupon all coursework can be put into practice. Exercise to be carried out with assessor in attendance to provide guidance.

### Fault finding assessment activity.



## 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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