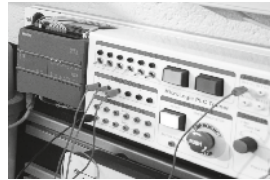


# INTRODUCTION TO SIEMENS PLC

## Tia Portal - V15.1 Siemens S7



### WHO SHOULD PARTICIPATE?

Maintenance engineers who wish to develop their knowledge and understanding of PLCs integrated into electrical control systems.

### PROGRAMME BENEFITS

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

- Work safely on modern industrial electrical/electronic equipment
- Understand how PLCs are incorporated in modern automated systems
- Interpret ladder logic programmes
- Identify, understand and deal with faults from PLC driven circuits

### ASSESSMENT

Internal written and practical assessment.

### CERTIFICATION

Delegates will receive an MGTS certificate of attendance.

### DURATION

3 Days

### THE PROGRAMME WILL COVER:

#### Day 1

- Identification of the PLC hardware
- How to navigate through the programming package
- How to communicate to the PLC
- Understanding physical I/O
- Creating I/O tags and watch
- Interpreting bit instructions
- Understanding the ladder logic structure

#### Day 2

- Interpreting timer instructions
- Interpreting counter instructions
- Downloading and uploading programmes
- Forcing and toggling I/O
- Understanding the online programme edits
- Troubleshooting digital I/O
- Fault finding on PLC driven circuits

#### Day 3

- Scaling analogue inputs from a range of sensors
- Interpret scaled values to control outputs
- Create programmes to speed control ac motors via an inverter

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

## 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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