

Introduction to Programmable Logic Controllers (PLC) Course Outline



Who Should Attend:

This course is aimed at industrial engineers and technicians who need to maintain Programmable Logic Controller systems and who are likely to carry out fault finding.

The course provides detailed grounding in PLC concepts such as inputs/outputs, ladder logic and fault finding, which is essential for maintaining uptime and performance of machines/processes.

Delegates will learn to practically wire up PLC systems and then carry out programming using Siemens PLC controllers. The focus is on principles and techniques which apply to all PLC platforms. The practical work is carried out on Siemens S7-1200 Software and TIA Portal Programming Software.

Duration:

This course will take two days to complete.

Course Content:

- Introduction, applicable Health and Safety
- Relay logic fundamentals
- PLC system structure
- Basic ladder logic
- Programming
- Commenting
- Advanced ladder logic
- Timers, Counters & Comparators
- Digital and Analogue I/O
- Number systems and memory
- Online Diagnostics
- Memory management
- Project exercises

Course Cost:

The total cost of this course is £495 (+ VAT) per person.

Additional Information:

- The course runs from 8.30am – 4.00pm
- Lunch & Refreshments are provided
- Car Parking Facilities are provided
- Course Notes included
- This is a hands-on practical course, therefore delegates will be expected to read electrical schematics, and implement simple PLC systems on Waterside's electrical training rigs.

Bespoke PLC Training:

Waterside can offer bespoke PLC courses to suit individual company needs. Training can be modified to incorporate customer process details, scenarios etc. making the course more directly relevant to staff.

The training rigs are portable, allowing PLC courses to be delivered at customer sites. This can be particularly effective when several staff need training.

Please call or use the Contact Us Form for further details/bespoke costs.