AUTOMATION ACADEMY

Automation Systems Training Specialists

Course Title: Wago PFC Fieldbus Controller Training Course

The Wago PFC Fieldbus Controller training course has been designed to familiarise Electricians, Technicians and Maintenance Engineers with little or no experience of PLC systems to the different aspects associated with the operation and maintenance of Wago PFC (Programmable Fieldbus Controllers) and the Wago e!cockpit programming software.

Where possible, application specific exercises, actual drawings and plant programs will be used to allow the students to gain the greatest possible benefit from the course.

Course Objectives:

- ☑ To introduce students to the concepts and operation of Wago PFC Ethernet Controllers.
- ☑ To recognise and understand the hardware associated with a Wago PFC controller.
- ☑ To be able to understand the structure of the Wago PFC project and to have the confidence to implement minor changes to the program.
- ☑ To be able to use the programming software to connect online to monitor and search through the Wago PFC program to determine problems on plant.
- ☑ To be able to locate and replace faulty modules by understanding and using the system diagnostics available when an error is present.
- ☑ To be able to take a backup copy of the Wago PFC controller program and to be able to restore a program back into the controller from a backup copy.

Course Content:

The hardware architecture of the Wago PFC range of controllers.
Understanding Wago 750 series I/O modules, their plant wiring and LED indicators.
Addresses used in the Wago PFC range of controllers.
An overview of the Wago PFC Wago e!cockpit programmer project structure.
First steps using the Wago e!cockpit IEC 61131 programming software.
Creating a training project to demonstrate plant programming examples.
Wago PFC systems hardware configuration.
Getting an online connection to the Wago PFC controller.
Downloading projects to the Wago PFC controller.
Online monitoring and the search facilities within Wago e!cockpit.
An overview of the programming methods used on plant programs.
A demonstration of simple program editing and modifying plant programs.
Reading the Wago PFC controllers instruction set.

Programming examples including relay, maths, move, compare and logic functions.
Using and creating program documentation.
Using program documentation for fault finding purposes.
Analogue modules and analogue signal processing.
Diagnostic information and module information used for fault finding.
Wago PFC HTML visualisation operation and configuration.
If released to us two weeks before the scheduled course start date then we will include application exercises on your plant Wago PFC programs.

Customised training included in the course cost.

As part of this training course we will include custom application exercises for your own plant and processes, this value added option creates immediate payback for students on plant. It will have the benefit of the students becoming familiar with key areas of your PLC project(s) during the training course. This option does require the supply of your plant drawing and program listings at least 2 weeks prior to the course start date.

Course Duration: 4 Days
Documentation: Wago PFC Series Controller Training Manual.
Equipment per student: Wago PFC Fieldbus controller
Programming laptop
Plant simulator

Web link: Wago PFC Fieldbus Controller Training Course