

AUTOMATION ACADEMY

A u t o m a t i o n S y s t e m s T r a i n i n g S p e c i a l i s t s

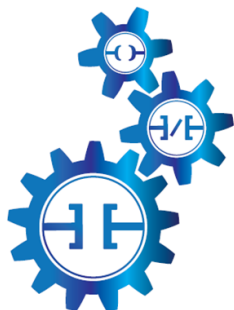
Course Title: Schneider Twido Maintenance Course

The Twido Maintenance Course has been designed to familiarise Electricians, Technicians and Maintenance Engineers with little or no experience of Schneider Twido systems to the different aspects associated with the operation and maintenance of Twido controllers using the TwidoSoft programming software. This course is intended to give students the background knowledge and practical experience in working on a Twido system so that they have a good understanding of the system and have the ability to make small edits and make changes to program parameters.

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, terminology and operation of Twido Controllers.
- ☒ To recognise and understand the hardware associated with Twido controllers.
- ☒ To recognise and understand what the system LED's indicate.
- ☒ To be able to open and understand the project folder structure of the Twido PLC program and to have the confidence to implement minor changes to the ladder program and register values.
- ☒ Understanding the use and operation of Twido ladder instructions set.
- ☒ To be able to use the TwidoSoft programming software to connect online to monitor (animate) and be able to use the search facilities to chase through the program to determine problems on plant.
- ☒ To understand the operation and terminology of Twido Ethernet communication links and understand how the Ethernet connection is used to configure an OTB I/O island.
- ☒ To be able to locate and replace faulty modules by understanding and using the cpu LED's and system bits and words within the controller when an error is present.
- ☒ To be able to transfer a copy of the Twido controllers program to create a backup. To be able to transfer a program back into the controller from a backup copy.



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Course Content:

The hardware architecture and operation of Twido controllers.
Understanding Twido I/O modules, their plant wiring and LED indicators.
Addresses used in the Twido range of controllers.
First steps using the programming software.
Creating a training program to demonstrate plant programming examples.
Getting an online connection to the Twido controller, serial and/or Ethernet.
Downloading the user program to the Twido controller.
Online monitoring and the Twido search and cross reference facility.
Creating and using tables to monitor the Twido PLC status.
An overview of the Twido ladder programming techniques used on plant programs.
A demonstration of simple program editing and modifying plant programs.
Reading the Twido controllers standard instruction set.
Programming examples including relay, timers, logic, maths, and compares.
Understanding and configuring higher level ladder instructions in the program.
Binary, Decimal and Hex numbering systems and their use in an Twido program.
Using and creating program documentation.
Using program documentation for fault finding purposes.
Analogue modules and the maths involved in analogue signal processing
The configuration and operation of Twido communications

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: 3 Days

Documentation: Twido Controller Training Manual.

Equipment per student: Twido controller

Programming laptop

Plant simulator

Web link: [Schneider Twido Maintenance Course](#)