

Siemens Certified Programmer in TIA Portal (CPT-FAP)

Short Description

You will deepen your theoretical knowledge with numerous practical exercises on a SIMATIC plant model on which you also take the examination. This consists of a SIMATIC S7-1500 automation system, ET200SP distributed I/O, WinCC Runtime, Motion Box and a conveyor belt model.

Objectives

This course consists of two days of theory as the ideal preparation for a 5½ hour examination on the third day! Your skills from SIMATIC programming training (courses TIA-PRO1 - TIA-PRO3) will be refreshed and consolidated. The practical assessment involves the creation and commissioning of a complex PLC program with components of Totally Integrated Automation from SIEMENS. After passing the examination successfully you will receive a recognised certificate that attests your specialist knowledge.

Content

Configuration of a SIMATIC controller

Applicative programming in a complex automation system

Programs for an automation system consisting of a standard PLC with distributed I/O, standard HMI device and bus system

Programming in compliance with IEC

Standardised user blocks

Creation and application of complex data structures

Variables of a composite and complex data type

System blocks

Indirect addressing of complex data structures and parameters

Industrial communication

Configuration of CPU-CPU communication via Industrial Ethernet

Human Machine Interface

Alternative message methods

Consistent transfer of entire data records (recipe management)

Motion control using technology objects

Deeper understanding of contents through practical exercises on the SIMATIC S7-1500 system model

Prerequisites

PC literacy, keyboard/ mouse skills and a working knowledge of MS Windows enabling the participant to:-

Open and Close programs

Locate files

Copy and paste files, objects and data (text, etc.)

Drag and drop files, objects and data (text, etc.)

Use of menus and multi-menus

Manipulate windows within a multi-window environment

Use the Windows help

To enrol on this refresher course and examination module participants must have at least attended the Siemens TIA Portal Programming 3 course (TIA-PRO3).

Note

The examination is open book but documentation will not be issued in lieu of any TIA Portal Programming courses not undertaken.
Туре
Face-to-face training
Duration
3 days
Language
en en
Fee

1.670 GBP