

## TIA Portal System Retraining Course (TIA-SYSUP)

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### Short Description

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The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 and SIMATIC WinCC Advanced. In this course the student will learn about the major differences between SIMATIC Manager and TIA Portal, and between STEP 7 V5.x and STEP 7 based on TIA Portal. They will learn how to configure and program a SIMATIC S7 automation system with the "TIA Portal" engineering platform. Participants can reinforce their theoretical knowledge with extensive practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system, ET200SP distributed I/O, TP 700 Touch Panel, G120 drive, and a conveyor model.

[Also available as Online-Training](#)

### Objectives

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On completion of this course the participant will be able to:-  
Efficiently use the "TIA Portal" engineering platform  
Configure and program components of the SIMATIC S7 automation system with the TIA Portal  
Perform commissioning of TIA components

### Content

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TIA Portal components: SIMATIC STEP 7 and SIMATIC WinCC Advanced  
Basic configuration of devices and networks for the SIMATIC S7 system family including PROFINET connections  
Working with the SIMATIC STEP 7 symbol table  
Program blocks and editor  
Data management with data blocks  
Programming of organisation blocks (OBs)  
New instructions for use with the S7-1500 for indirect addressing operations  
Working with troubleshooting tools  
An introduction to Structured Control Language (SCL) editor  
An introduction to the operator control and monitoring system (HMI)  
An introduction to the configuration of a G120 using StartDrive in the TIA Portal  
An introduction to S7-GRAPH  
All topics are reinforced through structured practical exercises on TIA system model

### Prerequisites

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The ability to use an MS Windows PC, keyboard and mouse to include opening and closing programs, locating files, copy and paste objects /data (text, etc). Drag and drop files, objects/data (text, etc). Use of menus and multi-menus, manipulation of windows within a multi-window environment. Use of MS Windows Help. Prior attendance on Siemens ST-SERV3 or ST-PRO2 would be advantageous or equivalent knowledge and practical experience.

You can use the online tests below to find out whether you have sufficient prior knowledge to participate effectively in the course you wish to attend. If you answer more than 70 % of the questions correctly you are well prepared to take part in the course.

[Test TIA-SYSUP](#)

### Note

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### Type

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Face-to-face training

### Duration

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5 days

### Language

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2,670 GBP