

On line-Training Corso SIMATIC S7 Service 2 (ST-SERV2)

Short Description

The second part of the SIMATIC S7-300/400 Service course is linked to the first basic course with regard to SIMATIC STEP 7 V5.x, SIMATIC HMI, SINAMICS drive components and PROFIBUS DP, and it expands this in the direction of troubleshooting. The course focuses on fault correction, software troubleshooting and program adaptations. What you learn about the integrated factory automation will teach you to take a holistic view of your plant and to understand the relationship between the individual components. This will enable you on completion of the course to pinpoint faults and correct them systematically and quickly. This will increase the productivity of the machine since standstill times are thus reduced. You will be able to adapt your system to new conditions through small program changes and expansions.

Objectives

After attending the course, you can:

- View and interpret online information of a SIMATIC S7-300/400 system
- Structure an S7 software by using functions (FCs) and function blocks (FBs)
- Organize information in a data block (DB)
- Use organization blocks (OBs) to search for hardware and software errors
- Manage analog values
- Display information on a SIMATIC HMI
- Connect and parameterize a SINAMICS drive.

Target Group

Maintenance personnel
Service personnel

Content

- Hardware troubleshooting on SIMATIC S7-300/400 automation systems
- Use and applications of the different types of program blocks (FC, FB, OB, DB)
- Management of analog signals
- Use of SIMATIC STEP 7 V5.x for troubleshooting
- Search and fix for software errors
- Troubleshooting with MPI networks
- Changes to applications developed on SIMATIC HMI
- Parameter management on SINAMICS drives

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-300 automation system, a SIMATIC HMI operator control and a conveyor model.

Prerequisites

SERV1 course or equivalent basic knowledge of automation systems.

Note

This course is also available in Virtual Classroom mode: E-SERV2.

This course is also available as an evening course: SERV2/S.

In this course, the SIMATIC S7-300 automation system and the SIMATIC STEP 7 V5.x and the SIMATIC WinCC Flexible 2008 softwares are used. Redundant systems SIMATIC S7-400H are not covered here.

Type

Online-Training

Duration

30 hours

Language

it