SIEMENS

SIMATIC S7 Service 1 (ST-SERV1)

Short Description

You will reinforce your theoretical knowledge in numerous practical exercises on a SIMATIC plant model. This consists of an S7-300 automation system, an ET200S distributed I/O, a TP 177B Touch Panel, a Micromaster 420 drive and a conveyor model.

Objectives

This first component of the SIMATIC service course teaches the basic knowledge of the design of automation systems, the configuration and parameterization of the hardware, handling with the STEP 7 Basis Software and the fundamentals of programming. You also get an overview of human machine interfacing, PROFIBUS DP and the integration of drives.
What you learn about the integrated factory automation will teach you to take a holistic view of your plant and to understand the relationships between components. On completion of the course, you will thus be able to diagnose simple hardware faults or replace modules, to coordinate components optimally, carry our safe fault diagnostics and thus reduce downtimes.

Target Group

Maintenance personnel
Service personnel
Operators

Content

System overview and essential performance features of the SIMATIC S7 system family
The components of the STEP 7 Basic Package
Program execution in the automation system
Binary and digital operations
Configuring and assembling an automation system
Addressing and wiring of the signal modules
Hardware and software startup of the automation system
Hardware configuration and parameterization in the case of S7-300
Reinforcement of the content through exercises on the device
Introducing the TP177B Touch Panel
Introducing the MM420 drive
Configuration and parameterization of PROFIBUS DP
Backing up and documenting executed program changes
Deeper understanding of contents through practical exercises on the SIMATIC S7-300 system model

Prerequisites

Basic knowledge of automation
You can use the online tests to find out whether you have sufficient prior knowledge to participate effectively in the course you wish to attend.
This blended-learning course combines Web-based training (WBT) on the Internet with a 5-day attendance course: To prepare you for the attendance component, you will receive the WBT "PLC Knowledge for First-Time Users". By using these learning media, you increase your personal learning success in the attendance course.

Note

In this course you will work with the SIMATIC STEP 7 V5.x software.
This is the first of two courses which will lead you to the exam for the "Siemens Certified Service Technician Level 1 (CP-FAST1)". This is the first of three courses which will lead you to the exam for the "Siemens Certified Service Technician Level 2 (CP-FAST2)". The exam is a module of the "SITRAIN Certification Program".
Excercises performed on SIMATIC S7-300.
Documentation in English.
Register in the calender one week before the training starts.

Type

Face-to-face training

Duration

4 days

Language

no

Fee

NOK 15 800,-

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