SIEMENS

SIMATIC S7 Service Training 1 (ST-SERV1)

Kort beskrivelse

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.

Målsætninger

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.

Målgruppe

Maintenance personnel
Service personnel
Operators

Indhold

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.

Included in the course price: Free access to the digital learning platform SITRAIN access – starting one week before the start of the course until two weeks after the end of the course. Here you will find web-based trainings on
Automation Basic (Curriculum) , and many more. With the Learning Membership, you can deepen or repeat the content of this Learning Event as well as continue your education on other interesting topics.

Deltagerkrav

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.

- Online Assessment Test

Bemærk

In this course you will work with the SIMATIC STEP 7 V5.x software.

The Learning Membership starts 7 days before the start of the course and ends 14 days after the end of the course. During this period, you have access to all of the more than 480 web-based trainings available.

Type

Face-to-face-uddannelse

Varighed

5 dage

Sprog

en

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