

## SIMATIC S7 Servicetraining 2 (ST-SERV2)

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### Short Description

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You will deepen your theoretical knowledge through numerous practical exercises on a SIMATIC system model. This consists of a SIMATIC S7-300 automation system, ET200S decentralized peripherals, TP 177B touch panel, Micromaster 420 drive and a conveyor model.

### Objectives

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The second part of the SIMATIC service training builds on the knowledge acquired in the first basic course with regard to SIMATIC STEP 7, operating and monitoring system, drive components and PROFIBUS DP and expands it in the direction of troubleshooting. The focus of this course is on troubleshooting, software troubleshooting and program adaptations.

With the knowledge of integrated production automation, you will take a holistic view of your system and understand the interaction of the individual components. After the course, you will be able to find and rectify faults quickly, systematically and in a targeted manner. This will increase machine productivity by reducing downtimes. You can adapt your system to new conditions by making small program changes and extensions.

### Target Group

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Maintenance personnel  
Service personnel

### Content

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Identifying and eliminating basic hardware faults  
Possible applications of different block types (FC, FB, OB, DB)  
Principles of analog value processing  
Using SIMATIC STEP 7 software for troubleshooting and fault elimination  
Identifying and eliminating software errors  
Commissioning decentralized peripherals on PROFIBUS DP  
Changing the configuration of the TP 177B touch panel  
Changing the parameters of the Micromaster 420  
Sequential control  
Consolidation of the content through practice-oriented exercises on the SIMATIC S7-300 system model

### Prerequisites

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SIMATIC S7 knowledge corresponding to ST-SERV1 and practical experience in applying the knowledge.  
An online entrance test is available for you to ensure that the course you have chosen corresponds to your skills.  
[Online entrance test](#)

### Note

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

### Type

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Face-to-face training

### Duration

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5 days

### Language

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de, en, fr, nl