

## SIMATIC S7 System course part 3 (ST-S7SYS3)

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### Objectives

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This course is intended for participants with technical training and in charge of installation, project execution and commissioning tasks. The knowledge acquired in the ST-S7SYS2 course is expanded to include more complex functions in STEP7. After this module, the participant will be able to use the SIMATIC S7 PLCs even more efficiently. This module can be completed with the customized practical ST-S7PRAC3.

### Target Group

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Commissioning and Project Execution

### Content

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Status bit dependent instructions  
Manipulation and interpretation of accumulators  
Mathematical operations with floating point numbers  
Complex parameters e.g. "date-and-time", "string", "pointer" and "any"  
Indirect addressing and register indirect addressing  
System functions, overview and use of SFCs  
Structure and use of libraries  
Data management with structures, arrays and multidimensional complex data types  
Overview and use of SFBs for communication e.g. Get/Put and BSEND/BRCV

### Prerequisites

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Knowledge in accordance with the ST-S7SYS2 course

### Note

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All topics are explained using exercises with a programming device and a PLC in connection with a conveyor belt as a practice model.

- Hardware used: S7-300 / S7-400
- Software used: Step 7 V5.x classic

### Type

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Face-to-face training

### Duration

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3 days

### Language

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de, en, fr, nl