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## SIMATIC S7, Programming with SCL based on TIA Portal / SIMATIC S7-SCL结构化控制语言编程 (A7821)

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### Objectives

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Select this course if you want to program SIMATIC S7-1500 using a high-level programming language. Using complex examples, we will show you the advantages offered by a high-level programming language. The course aims to inform participants about the complete language and performance scope of the Structured Control Language (SCL) development environment. During the training, you will create your own SCL programs, commission and test them. Reduce the time spent creating programs for basic applications and reduce the maintenance of basic programs compared to using a Statement List (STL).

### Target Group

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Programmers, Commissioning engineers, Configuration personnel, Service personnel, Maintenance personnel

### Content

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- Basics of the SCL programming language
- SCL editor
- Data types
- SCL instructions
- Control structures
- Implicit & explicit conversions
- Creating and calling functions and function blocks in SCL
- Complex data types
- Error handling in the block
- Handling of SCL sources
- Create blocks that are compatible with libraries
- Working with array in SCL
- Working with tags and symbolic block names in SCL
- Strings and string processing in SCL
- Use of the data types DB-ANY, ARRAY[\*], VARIANT in SCL
- Creating, commissioning and testing your own SCL programs
- Reinforcement of the content using practical exercises

### Prerequisites

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Knowledge of SIMATIC STEP 7 based on TIA Portal.

### Type

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Face-to-face training

### Duration

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3 days

### Language

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zh

### Fee

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