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## SIMATIC S7-1500 Advanced Programming Course (based on TIA Portal) / SIMATIC S7-1500 高级编程课程(基于TIA博途) (A7813)

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### Objectives

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In this course, you will expand your knowledge regarding the reusability of STEP 7 blocks and their storage in user libraries. You will get to know more complex functions of Structured Control Language (SCL) and S7-GRAPH. You will create user-specific blocks for reporting, handling and analyzing program errors. To save the machine data, you will learn how to manage recipes in SIMATIC HMI (operator control and monitoring system). You will set up communication between SIMATIC CPUs based on Industrial Ethernet. The comprehensive knowledge that is imparted to you will allow you to shorten configuration & programming times, and to react flexibly to the need to optimize your plant.

### Target Group

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programmers, commissioning engineers, engineering personnel

### Content

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- Program design methods
- Jump and accumulator functions
- Functions, function blocks, and multi-instances
- Creation and application of complex data structures
- Indirect addressing
- Optimized blocks
- Introduction to S7-SCL
- Introduction to S7-Graph
- Administration of a recipe database in the operator control and monitoring system (HMI)
- CPU-CPU communication via Industrial Ethernet
- Integrating and Commissioning a Drive with Start drive
- Working with Technology Objects
- Deeper understanding of contents through practical exercises on SIMATIC S7-1500 system model

### Prerequisites

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Complete A7811 or A7816 course

### Type

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Face-to-face training

### Duration

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8 days

### Language

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zh

### Fee

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10,500 CNY