

## SIMATIC S7-1500/1500T Motion Control in the TIA Portal / SIMATIC S7-1500/1500T 运动控制系统调试课程 (A7824)

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### Objectives

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You will program SIMATIC S7-1500/1500T using TIA Portal. You will be able to precisely control the movement of the axis with the integrated motion control function. Through learning, you will understand the basic structure of drivers and be able to use optional package instructions to write motion control programs, including speed axes and basic positioning functions. You can also write programs to read and write driver parameters. You will also learn about knowledge related to driver optimization.

### Target Group

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Programmers, Commissioning engineers, Engineering personnel

### Content

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- Basic structure of Drive
- Hardware configuration for drive communication
- Configuration of basic positioning function
- Speed control telegram structure
- EPOS telegram structure
- Implement control of telegram 1 using SINASPEED
- Using SINAPOS to achieve basic positioning control
- Use SINAPara to read and write parameters
- Closed-loop control and optimization
- Practical exercises on training devices with SIMATIC S7-1500/1500T and SINAMICS drives

### Prerequisites

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Complete A7811 or A7816 course, Complete D7232 course

### Type

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Face-to-face training

### Duration

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5 days

### Language

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zh

### Fee

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7,500 CNY