

SIMATIC S7-1500T Motion Control Advanced Course in the TIA Portal / SIMATIC S7-1500T 运动控制系统高级调试课程 (A7826)

Objectives

You will program the SIMATIC S7-1500T controllers in the TIA Portal. You will be able to precisely control the motion of axes with the integrated motion control functions. In this technology course, you will learn the benefits and the use of these functions step by step. After each learning step, you will deepen your knowledge with hands-on programming. After attending the course you will understand the interaction of the technological functions. You will be able to select and configure appropriate technology objects, such as speed axis, positioning axis and synchronous axis, be able to efficiently assign parameters for technology objects, and integrate them in your program.

Target Group

Programmers, Commissioning engineers, Engineering personnel

Content

- Basics of motion control
- SpeedAxis technology object
- PositioningAxis technology object
- Homing and traversing movements
- Programming with PLCopen
- Error messages and diagnostics
- Output cam and measuring input
- SynchronousAxis technology object
- Overview of S7-1500T Technology CPU
- Absolute and relative gearing
- Strategies for synchronization and desynchronization
- Cam disc creation using the graphical cam editor and during runtime
- Camming as part of the Motion Control program
- Cross PLC synchronous operation
- Cam disc creation using libraries
- Practical exercises on training devices with SIMATIC S7-1500T and SINAMICS drives

Prerequisites

Complete A7811 or A7816 course, Complete D7232 course

Type

Face-to-face training

Duration

5 days

Language

zh

Fee

7,800 CNY