

Online-Training - SIMATIC - Motion Control 2 in the TIA Portal (TIA-MC2)

Short Description

In this online-course, you will learn to program the motion control functions of the technology controller SIMATIC S7-1500T using TIA Portal. Core topics are gearing, cam discs and Safety Integrated.

[Also available as face-to-face training](#)

Objectives

You can already parameterize the integrated Motion Control functions of the SIMATIC S7-1500 and integrate them into your program. Using the technology CPU, you will extend the applications with absolute synchronous axes and camming. In this technology course, you will learn step by step the benefits and the use of these functions. After each learning step, you will deepen your knowledge with hands-on programming. After completing the course, you will understand how camming works and be able to efficiently assign parameters for technology objects.

You will deepen your theoretical knowledge through numerous practice-oriented exercises in our virtual learning environment with SIMATIC S7-1500TF.

Target Group

Programmers
Commissioning engineers
Engineering personnel

Content

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
Closed-loop control and optimization
Interplay between Motion Control and Safety Integrated
Cam disc creation using libraries
Consolidation of the contents through practice-oriented exercises in the virtual learning environment with SIMATIC S7-1500TF

Prerequisites

- Experience with programming motion control objects and functions in SIMATIC TIA Portal corresponding to the course TIA-MC1.
- [Technical requirements](#) > VE Lab

Note

Over the year 2022, the courses TIA-MC1 (3 days) and TIA-MC2 (2 days) will be combined to form the course TIA-MC (5 days). The content remains unchanged.

Type

Online-Training

Duration

2 days

Language

en