SIEMENS

Learning Journey - Motion Control in TIA Portal 1 (TIA-MC1-LJ)

Short Description

In this Learning Journey, you will learn to program the motion control functions for single axes integrated in the SIMATIC S7-1500 or S7-1200 controllers using TIA Portal.

Objectives

You will program the SIMATIC S7-1500 or S7-1200 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 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 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 and positioning axis, and integrate them in your program.

Target Group

Programmierer
Commissioning engineers
Engineering personnel

Content

Basics of motion control
SpeedAxis technology object
PositioningAxis technology object
Homing and traversing movements
Programming with PLCopen
Communication and libraries
Measuring input technology object
Error messages and diagnostics
Practical exercises on virtual training devices

Prerequisites

Knowledge of programming in the SIMATIC TIA Portal (equivalent to knowledge after completion of the TIA-PRO1 or TIA-SERV2 course)

Type

Learning Journey

Duration

20 hours

Language

en

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