

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

### 简要介绍

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.

### 培训目的

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.

### 培训对象

Programmierer  
Commissioning engineers  
Engineering personnel

### 课程内容

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

### 必备条件

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

### 课程类型

学习之旅

### 培训天数

20 小时

### 培训语言

en