

## Programmazione SIMATIC S7-GRAPH in TIA Portal (TIA-GRAPH)

### Short Description

The Totally Integrated Automation Portal (TIA Portal) provides the working environment for end-to-end engineering with SIMATIC STEP 7 and SIMATIC WinCC. Select this course if you want to program SIMATIC S7-1500 using sequential controls with SIMATIC S7-GRAPH. Using simple examples, we will show you the advantages of the SIMATIC S7-GRAPH. The course aims to inform participants about the complete language and performance scope of the sequential controls with SIMATIC S7-GRAPH development environment. During the training course, you will create, commission, and test your own sequential controls programs. After the course, you will be able to reduce the amount of time spent on creating and maintaining programs through the use of SIMATIC S7-GRAPH.

### Objectives

After attending the course, you can:

- Structure and process a program using the program elements of SIMATIC S7-GRAPH
- Create, document, test and troubleshoot an application program
- Identify the components and performance characteristics of a SIMATIC S7-GRAPH structure

### Target Group

Programmers  
Commissioning engineers  
Engineering personnel  
Maintenance personnel  
Service personnel

### Content

- Design, structure and methods of representation of sequencers with SIMATIC S7-GRAPH
- Planning and configuring sequencers
- Programming, documenting and starting up sequence blocks
- Programming of interlocks and monitoring
- Use of event-driven actions
- Properties of simultaneous and alternative branches
- Integrating manual mode
- Test functions and diagnostics facilities

The theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-1500 automation system and a conveyor model.

### Prerequisites

S71500S1 or S71500P1 courses or equivalent basic knowledge of automation systems.

### Note

In this course, the SIMATIC S7-1500 automation system and the SIMATIC STEP 7 (TIA Portal) software are used; GRAPH course is available for the SIMATIC STEP 7 V5.x software.

You can prepare for this activity through the introductory **SIE-learning 4.0** course SIE-GRAPHC.

### Type

Face-to-face training

### Duration

2 days

### Language

it