

## Introduzione a SIMATIC S7-GRAPH in TIA Portal (SIE-GRAPHC)

### Short Description

The SIMATIC S7-GRAPH language makes it possible to graphically describe a process by using steps and transitions with a representation standardized by IEC 61131-3. Its use guarantees a clear and quick interpretation of the operation of a machine. The course will allow you to learn the fundamentals of the SIMATIC S7-GRAPH language in the environment TIA Portal by creating a project. You will also be shown the diagnostic tools in the TIA Portal environment.

### Objectives

After attending the course, you can:

- Build a sequencer using steps and transitions
- Manage the SIMATIC S7-GRAPH development environment
- Create a simple program in SIMATIC S7-GRAPH by applying interlocks and supervision
- Carry out diagnostics

### Target Group

Programmers  
Commissioning engineers  
Engineering personnel  
Maintenance personnel  
Service personnel

### Content

- System architecture
- Sequencer concept
- Basic elements: step and transition
- Interlocking, supervision and alarms
- SIMATIC S7-GRAPH programming language
- Call of a SIMATIC S7-GRAPH block in the user program and main parameters
- Diagnostics in the TIA Portal environment

The theoretical knowledge will be deepened with practical exercises by accessing a remote system. This is made up of:

- SIMATIC S7-1500
- Conveyor belt model
- PC station with SIMATIC STEP 7 Professional (TIA Portal)

### Prerequisites

TIA-SERV1 or TIA-PRO1 or course or equivalent basic knowledge of automation systems.

### Note

**This course delivery data will be decided together with you:** please get in touch to [digitalindustryacademy.rc-it@siemens.com](mailto:digitalindustryacademy.rc-it@siemens.com), tell us your needs and we'll be glad to find a tailored solution for you!

[Submit Training Request](#)

This SIE-learning 4.0 is preparatory for the TIA-GRAPH course.

### Type

Online-Training

### Duration

4 hours

### Language

it

### Fee

760 EUR

Price for semi individual session up to 2 participants

1400 EUR

Price for session up to 5 participants

2240 EUR  
Price for session up to 10 participants