

## On line-Training SIMATIC S7 Programmazione 3 (ST-PRO3)

---

### Short Description

---

This course builds advanced skills in control system programming in a control systems environment. Workstations will include the SIMATIC S7-300/400 PLC, SIMATIC HMI, SINAMICS drive system and both PROFIBUS and Ethernet networks. You will be challenged with a number of advanced programming techniques including data management routines, advanced system functions, new program efficiency tools and error handling. Advanced level blocks, functions, tools and libraries are discussed and demonstrated.

### Objectives

---

After attending the course, you can:

- Efficiently apply data block (DBs)
- Efficiently use the various data types
- Manage complex program errors
- Build and manage recipes with SIMATIC HMI
- Understand the advantages of each networking type
- Set up a basic Ethernet network.
- Understand the optional program editors and their advantages

### Target Group

---

Programmers  
Commissioning engineers  
Engineering personnel

### Content

---

- Block calls and multi-instance model
- Complex data type applications
- Indirect addressing and registers
- Block calls with parameters
- Complex error handling
- Recipes
- S7 communications
- Basis of Ethernet
- S7 Engineering tools overview (SIMATIC S7-GRAPH, SCL)

Theoretical knowledge will be deepened with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7-300 automation system, a SIMATIC HMI operator control and a conveyor model.

### Prerequisites

---

PRO2 course or equivalent basic knowledge of automation systems.

### Note

---

In this course, the SIMATIC S7-300 automation system and the SIMATIC STEP 7 V5.x software are used. Redundant systems SIMATIC S7-400H are not covered here.

### Type

---

Online-Training

### Duration

---

30 hours

### Language

---

it