

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

Face-to-face training

Duration

5 days

Language

it