

PROGRAMMABLE LOGIC CONTROLLER (PLC)

OVERVIEW

Programmable Logic Controller (PLC) is a digital computer used for the automation of various electro-mechanical processes in industries. These controllers are specially designed to survive in harsh situations and shielded from heat, cold, dust, and moisture etc. This course is about the basic of PLC programming.

TARGET MARKET

- Maintenance services personnel, automation engineers, electrical and electronic technicians
- Anyone interested in gaining knowledge on PLC systems SIMATIC S7-1200 PROGRAMMING

COURSE OUTLINE

- Simatic S7 system family overview
- Installation / Maintenance of PLC
- Hardware Configuration
- Hardware Commissioning
- Block Architecture and Block Editor
- Binary Operations
- Digital Operation
- Introduction to HMI
- Exercises

OBJECTIVES

The Totally Integrated Automation (TIA) Portal for Simatic S7-1200 forms the work environment for integrated engineering with SIMATIC STEP7 Basic and SIMATIC WinCC Basic.

In this first part of the SIMATIC TIA Portal S7-1200 training, participants shall learn the handling of the TIA Portal, basic knowledge about the structure of the SIMATIC S7-1200 automation system, configuration and parameterization of hardware, and the basics of programming. They will learn how to clear simple hardware faults and software errors in the SIMATIC S7-1200 automation system and to create, modify and expand small STEP7 programs. You will also get an overview on operator control and monitoring.



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