

Siemens Step 7 1200/1500 via TIA Portal

Level (2)

Course Description

This training course provides you the programming of the TIA Portal using other languages like Function block diagram and STL, dealing with analog modules, apply PID Control example, configuring distributed IOs, finally communicate 2 PLCs to each other.

Target Audience

Programmers, commissioning engineers, service personal and configuring engineers.

Pre-requisites

- Basic computer skills with Windows 7 very helpful.
- Few classic control experience or knowledge.

Duration

- **Class room:** 5 days, 6 hours/day.
- **On line:** 10 days, 3 hours/day.

Course Outline

- Function Block Diagram programming language (Bit Instructions – Timers – Counters),
- Analog signal identifications,
- Analog module configurations,
- SFC Converting functions,
- Word logic instructions and Conversion instructions,
- PID Controller system,
- Statement List programming language,
- Remote IOs configurations through profinet and profibus,
- CPU Master and CPU slave Profibus communication.

Course Agenda

Day 1	<ul style="list-style-type: none"> • Overview to TIA Portal course level (1), • Function block diagram programming. • Bit instructions – types of timers – Counters.
Day 2	<ul style="list-style-type: none"> • Types of analog signals • Wiring of analog module • Special cards • Configuration and programming of analog module.
Day 3	<ul style="list-style-type: none"> • System functions. • User define data types, • Word logic instructions and Conversion instructions,
Day 4	<ul style="list-style-type: none"> • Building PID Control System, • Converting programming language to statement list (STL), • Identify STL, • Apply examples using STL.
Day 5	<ul style="list-style-type: none"> • Configuring remote IOs on Profibus mode, • Configuring remote IOs on Profinet mode, • Communicate two PLCs (Master/Slave).