



Learning Objectives

- Setup and design of a PLC via TIA Portal
- Commissioning an automation system
- Programming according to international standard IEC 1131-3
- Connecting and commissioning field bus systems

Training Package: Automation Technology S7-1200 Touch

Description: The PLC training system S7-1200/Touch offers comprehensive training on PLC setup, programming, and field bus systems. It includes:

- **CPU 1215C Features:**
 - PROFINET interface
 - 14 digital inputs (4 rapid counter inputs at 100 kHz)
 - 10 digital outputs
 - 2 analog inputs (0..10V DC)
 - 2 analog outputs (0..20 mA)
 - Controlled positioning (analog and digital)
 - PID controller
- **Touch Panel:**
 - KTP700 PN
 - 7" color graphic display with touch function
 - Additional programmable function keys
 - PROFINET interface
- **Profinet Network Configuration:**
 - 5-port Profinet switch

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com

● **Experimenting Board:**

- A4 format
- Integrated power supply (24V DC/6.5A)
- 14 digital inputs, 10 digital outputs (24V DC)
- 24 safety sockets (4mm) for digital inputs/outputs
- 14 simulation push/lock-in switches for digital inputs
- 2 analog inputs, 1 analog output (0...10V DC) on 4mm safety sockets
- Simulation field for analog processing (4mm safety sockets)
- System interface SUB-D 25-pin
- AS-i terminals (4mm safety sockets and push-in terminals)
- HMI Profinet connection (RJ45 socket)
- Tophat rail and line-up terminals for AS-i and Profibus components
- Digital outputs protected against short-circuiting
- Slot (covered) for KTP700 integration
- Connecting lines for S7-1215C
- System interface for Automation Board Expansion (70285)

● **Design:**

- Photorealistic, multi-color front panel design
- Scratch-proof panel surface with didactic standard labeling
- Operating instructions and connection possibilities

● **Included Accessories:**

- PROFINET system cable (6 m)
- 4 MB Micro Memory Card
- Programming software TIA Portal Basic (single license)

● **System Requirements:**

- Windows 7 (64-bit) or later

● **Intended Use:**

- For vocational schools, colleges, universities, in-house vocational training departments, non-commercial research institutions, and non-commercial training departments only

Optional Accessories

- Assembly S7-1200 - Assembly of additional (or customer-provided) controls and modules on the Automation Board, including function test
- Communication module CM1243-5 Profibus - For use as a Profibus-DP master in a Simatic S7-1200 control
- Communication module CM1243-2 AS-i master - For use as an AS-i master in a Simatic S7-1200 control
- Data decoupling module DCM1271 - Required for operation of the AS-i master in a Simatic S7-1200 control
- Digital I/O module SM1223 - Required for operation of the second system interface Sub-D 25-pin, includes a set of connection cables for the 71200
- Patch cable set - Includes 2 x 0.25m and 2 x 0.5m cables

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Supporting Materials

- Student Manual, incl. CD-ROM "S7-1200 Basics"
 - Content includes:
 - General information on S7-1200
 - Hardware and software configuration
 - Commissioning and programming basics
 - PROFIBUS, PROFINET, and AS interface connections
 - Handling station project details
- Instructor's Manual, incl. CD-ROM "S7-1200 Basics"
 - Same structure as the student manual, with solutions included

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