



### Objective

Understand & discern the functionality of PLC and Programming of PLC

### Learning Objectives:

Having successfully completed this lab, the student will demonstrate knowledge in

- Understand the basic structure of PLC
- Demonstrate a knowledge of PLC programming (Ladder logic)
- Different Logic techniques in PLC.
- Have basic knowledge of control system
- Understand simple applications of PLC in the industry.

### SPECIFICATIONS

<b>Training Kit Base</b>	:	The PLC Training console has been designed to teach and train the students in the art of programming of PLC's and execute the programs developed to understand how PLC is used to control devices. This basic PLC Training System consists of a PLC and suitable Power supply mounted on DIN rail. Programming Software and Simulator Module for Inputs.
Logic Controller	:	Siemens S7-1200 PLC unit 14 Digital input, 10 Digital output, 2 Analog Input and 1 Analog output "Process image 1024 bytes for inputs, 1024 bytes for outputs" Work memory (integrated)-100 KB, Load memory (integrated)-4 MB
Software	:	TIA Portal Basic V14 step7 for Siemens PLC
Power supply	:	24vdc DIN Rail Mounting Type
Technical Literature	:	PLC Basic Level Student Work Book - PLC Basic Level Teacher Handbook- Solutions for PLC exercises, Teaching guide for Basic Level of PLC series

### REQUIRED EQUIPMENT AT SITE (OR) UTILITIES TO BE PROVIDED BY THE BUYER DURING COMMISSIONING, DEMONSTRATION & TRAINING

Note: Specifications are subject to change.

### **Tesca Technologies Pvt. Ltd.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in



**For PLC Trainer**

Desktop computer required with specification below  
Operating System : Windows 7 Professional or higher  
Processor Required At least i3 3.3GHz or equivalent, RAM : at least 4 GB  
19inch LCD Monitor - 1 no

**Training Skills-**

To teach PLC mounting, wiring & Operation  
PLC Applications & demonstration.  
Diagnosis of faults & corrective actions

**STANDARD OPERATION KIT INCLUDES**

Programming cable (RJ45 Ethernet Cable)no.1  
Power cord----- 1 no.  
Screwdriver set----- 1 set  
Manual CD(Siemens)----- 1 set

Ordering Details		
SN.	Order Code	Details
1.	54025A	Export Packing

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