SIEMENS
Ingenuity for life

SIMATIC S7 PROGRAMMING LEVEL 1
(ST-PRO1) 5 days

Requirements

This course is for SIMATIC S7 PLC users who are involved with developing or sustaining automation systems and their application programs.

PLEASE NOTE: If you are very new to SIEMENS PLC, it is advisable to start with the SIMATIC S7 Service Maintenance Level 1 (ST-SERV1).

Description / Objectives

This course is the second in a three part series which builds skills with Siemens STEP7 engineering software in project management, program design and application sustaining.

This is an aggressively paced curriculum covering key programming tools, structures, libraries and editors. This course takes a systems approach addressing the S7-300 PLCs, plus basic connectivity and functionality of an HMI and PROFIBUS based remote I/O.

Content

- Complete a system hardware configuration.
- Build, document, test and troubleshoot a structured STEP7 program.
- Program using the multiple address types.
- Use symbolic addressing.
- Use core application instructions, functions and blocks.
- Program using the processed analog values.
- Generate data blocks.
- Establish connections to an HMI

Target Group

Technical/ Maintenance Engineer, Programmers, Project Manager/ Staffs

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)
HRDF Training Provider ID: 13213/82

Digital Industries,
SITRAIN Training Room,
Level 15-1, CP Tower, No. 11, Jalan 16/11,
Pusat Dagang Seksyen 16,
46350 Petaling Jaya, Selangor.

Helpdesk: **1800 808 8888**
E-mail: **industry.my@siemens.com**
e-Pass: **https://siemens.asia/e-pass_v2/ASEAN/main/**
Website: **siemens.com.my/SIRT**

Bank Details

Bank Name: Deutsche Bank (M) Bhd
Bank Account Number :   0020768000
Bank Address :   18th – 20th Floor, Menara IMC 8,
                                Jalan Sultan Ismail,
                                50250, Kuala Lumpur
Bank Swift Code :   DEUTMYKLXXX

Daywise Schedule

Day	Time	Topics
Day 1	09:00 Hrs – 09:20 Hrs 09:20 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	SIMATIC S7 System Family overview Training Units & SIMATIC Manager Symbols & Hardware Configuration Step7 Blocks Practical on the above
Day 2	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Binary Operations Practical on the above Digital Operations Practical on the above
Day 3	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Introduction to Profibus DP and HMI Data Blocks Data Blocks (cont) Practical on the above
Day 4	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Functions and Function Blocks Organization Blocks Analog Value Processing Troubleshooting
Day 5	09:00 Hrs – 11:00 Hrs 11:00 Hrs – 12:00 Hrs 12:00 Hrs – 12:30 Hrs	Documentation Practical on the above Feedback & Valedictory session

Break Timings:

10:00 Hrs – 10:15 Hrs	Morning Tea Break
12:00 Hrs – 13:00 Hrs	Lunch Break
15:00 Hrs – 15:15 Hrs	Afternoon Tea Break
17:00 Hrs – 17:15 Hrs	Recess & End of Day