

# Course Details

SIMATIC S7

[siemens.com.my/SIRT](http://siemens.com.my/SIRT)

## **SIMATIC S7 PROGRAMMING LEVEL 2** (ST-PRO2) 5 days



**SIEMENS**

### **Requirements**

This course is for SIMATIC S7-300 PLC users with basic engineering experience in the design and sustaining of SIMATIC automation systems and their application programs.

PLEASE NOTE: Attending ST-PRO1 or ST-SERV2 course is a prerequisite for this course.

### **Description / Objectives**

This course is the last in a two part series which builds skills with Siemens STEP7 engineering software. Advanced programming tools, techniques, functions, data management and diagnostics are the focus of this course. This course takes a systems approach addressing the S7300 PLCs, plus basic connectivity and functionality of an HMI.

This programming course is designed to help the participant understand the techniques and benefits of structured programming. Participants will also learn to leverage the efficiencies and power of Siemens program editors (LAD, STL, FBD), block and function libraries. Managing and manipulating data is a key focus in this course.

## Content

- Understand the concepts of structured program creation.
- Leverage the power of Block and Function libraries.
- Use STL for advanced program development.
- Incorporate System Functions (SFC) in a program.
- Integrate an HMI and Drive system with the PLC.
- Use Instance and Multi-Instance data Blocks.
- Use interrupt-driven and error processing program execution blocks.
- Leverage STEP7 advanced diagnostics.

## 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](mailto:industry.my@siemens.com)  
e-Pass: [https://siemens.asia/e-pass\\_v2/ASEAN/main/](https://siemens.asia/e-pass_v2/ASEAN/main/)  
Website: [siemens.com.my/SIRT](https://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 – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Training Units and addressing Hardware & Software Commissioning Practical on the above Methods for program design
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	Analog value processing Jump and Accumulators Functions Functions & Function Blocks 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	Indirect Addressing Practical on the above System Blocks 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	Organization Blocks Blocks Analyzing Diagnostic Data Practical on the above
Day 5	09:00 Hrs – 11:00 Hrs 11:00 Hrs – 12:00 Hrs 12:00 Hrs – 12:30 Hrs	Tags and Alarm in HMI 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