

The Siemens logo is displayed in a bold, teal, sans-serif font.

*Ingenuity for life*

# Course Details

Totally Integrated Automation (TIA)

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

**TIA PORTAL PLC MICRO LEVEL 2  
(TIA-MICRO2) 3 days**

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## Requirements

This course is for Micro PLC users who are involved with developing or maintaining automation systems and their application programs. Basic knowledge of automation technology and attended SIMATIC S7-1200 knowledge corresponding to **TIA-MICRO1**.

## Description / Objectives

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7 Basic and SIMATIC WinCC Basic.

The second part of the SIMATIC S7-1200 training is based on the knowledge of the TIA Portal gained in the SIMATIC S7-1200 basic course, including SIMATIC STEP 7 Basic and HMI. You will expand your knowledge of programming in SCL, connecting drives, use of the TIA Portal diagnostic tools for clearing hardware faults and software errors, and PROFINET IO. You will also learn about the technology functions of the PID controller and drive functions that are offered by the SIMATIC S7-1200. You will thus be able to adapt your plant to new demands.

## Content

- Hardware diagnostic functions
- Software diagnostic functions of the TIA Portal
- Possible applications of various block types (FC, FB, OB, DB)
- Presentation of the SCL programming language
- Commissioning of distributed I/O on PROFINET IO
- Commissioning of a WinCC project
- PID controller technology functions and drive functions

## Target Group

Entrepreneurs, SMEs Owner, Technical/ Maintenance Manager, Programmers.

## 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/>

**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 10:00 Hrs - 12:00 Hrs 13:00 Hrs - 15:00 Hrs 15:15 Hrs - 17:00 Hrs	System Overview Training Unit Commissioning Hardware Analog Value Processing
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	Communication with a PLC Data Blocks Introduction to Industrial Communication Introduction to Profinet
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	Tags and Messages in HMI Technology Objects Programming Languages Summary & Feedback

**Break Timings:**

10:00 Hrs – 10:15 Hrs  
12:00 Hrs – 13:00 Hrs  
15:00 Hrs – 15:15 Hrs  
17:00 Hrs – 17:15 Hrs

Morning Tea Break  
Lunch Break  
Afternoon Tea Break  
Recess & End of Day

