

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

**TIA PORTAL PLC MICRO LEVEL 1
(TIA-MICRO1) 3 days**

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HRDF
CLAIMABLE
SBL Scheme

Requirements

The target group of this course is comprised of configuration engineers, project planners and decision-makers working in small, medium-sized and large-scale industrial companies, who are working on end-to-end digitalization concepts.

Description / Objectives

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

You will learn how to clear simple hardware faults and software errors in the Micro PLC automation system and to create, modify and expand small STEP 7 programs. You will thus be capable of reducing downtime. You will also get an overview on operator control and monitoring.

You will also learn programming a basic Human Machine Interface (HMI), communicating to the PLC via PROFINET. Participants will learn how to connect to the cloud via a cloud gateway to enable online I/O configuration, alert, and also data analytics.

Content

- Set up, install and wiring Siemens Micro PLC
- Configuring, parameterize, and exchange modules
- Create, change, program and expand small STEP 7 Programs
- Reliably operate and configure the “TIA Portal” engineering environment
- Create boot project and simple commissioning of PLC
- Basic introduction to HMI
- Programming communication between HMI and PLC

Target Group

Technical/ Maintenance Manager, Programmers.

Contact Information

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

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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	System Architecture Overview Installation Hardware commissioning Troubleshooting
Day – 2	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:00 Hrs 13:00 Hrs – 13:20 Hrs 13:20 Hrs – 14:00 Hrs 14:00 Hrs – 15:00 Hrs 15:00 Hrs – 17:00 Hrs	Training Unit Devices and Networks PLC Tags Programming Blocks and Editor Binary Operations Digital Operations
Day – 3	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 16:30 Hrs 16:30 Hrs – 17:00 Hrs	Introduction to HMI Programming HMI HMI Connection and Download Practical on the above Q&A and Feedback

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