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Course Details

Totally Integrated Automation (TIA)

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**TIA with Micro PLC Level 2 Customized
(TIA-MICRO2C) 5 days**

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Requirements

This course is for TIA Portal 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 up to TIA-MICRO1C.

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

- Set up SIMATIC S7-1200 PROFINET IO networks
- Understand the interaction of TIA components
- Perform specific commissioning of TIA components
- Use the PID controller technology functions and drive functions of the SIMATIC S7-1200
- Systematically diagnose and correct hardware and software errors in the SIMATIC S7-1200 automation system with the diagnostic tools of the TIA Portal engineering portal
- Create simple programs in the programming languages
- Integrated energy management
- Protection of machines and plants

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,
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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 – 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 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	Programming Languages (cont.) Troubleshooting Integrated energy management Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:00 Hrs 12:00 Hrs – 12:30 Hrs	Machinery & Plant security Cloud Service Summary & 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