

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](https://www.siemens.com.my/SIRT)

**TIA PORTAL SERVICE MAINTENANCE LEVEL 2
(TIA-SERV2) 5 days**

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Requirements

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with TIA Portal as choice as the first step to realize learning system of Industry 4.0. The second part of the SIMATIC TIA Portal service training is based on the knowledge of the TIA Portal gained in the TIA Portal Service Maintenance Level 1 course, including SIMATIC STEP 7, HMI, connection of drives, and PROFINET IO / PROFIBUS.

Description / Objectives

You will expand your troubleshooting and error correction knowledge -using the TIA Portal diagnostic tool in the commissioning and productive phase. Alarms are displayed on an operator control and monitoring system. You will learn about the included test functions for controlling programs in Structured Control Language (SCL).

You will implement a sequence control in SIMATIC S7-GRAPH and integrate the analog value processing. You will thus be able to adapt your plant to new demands and to reduce downtime. You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7 automation system, ET 200 distributed I/O, Touchpanel, and a belt model.

Content

- Understand the interaction of TIA components
- Understand, adapt, and expand given STEP 7 programs, including with step sequences and analog value processing
- Systematically diagnose and correct hardware and software errors in the SIMATIC S7 automation system with the diagnostic tools of the TIA Portal engineering portal
- Use the test functions in Structured Control Language (SCL)
- Perform specific commissioning of TIA components
- Adapt your WinCC configuration to new requirements through small modifications or extensions

Target Group

Technical/ Maintenance Manager, Programmers.

Contact Information

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

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SITRAIN Training Center
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46350 Petaling Jaya, Selangor.

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E-mail: industry.my@siemens.com
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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 10:00 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	Overview of TIA Training Devices and addressing Commissioning Hardware & Software Data blocks Level 2
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	Functions and Function Blocks Level 2 Debugging and Testing Functions Level 2 Organization Blocks & Error Handling Level 2 Analog Value Processing Level 2
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	Life Bit from HMI Device & CPU Time Sync Alarm System of HMI Level 2 Service support for the Web service Service support for Analyzer function
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	System Diagnostics of CPU Level 2 Technology Object Level 2 Intro to Graph Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Intro to SCL 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