

Course Details

SIEMENS TIA Portal S7-1200 Cloud Platform Integration TIA-MICRO CPI (5 days)

HRDF CLAIMABLE

*Subject to Approval

Requirements

This course is for SIMATIC S7-1200 PLC users who are involved in installing, developing, and maintaining systems and their application programs which connects to cloud services for digitalization and data analytics. Basic knowledge of automation technology.

Objectives

The Totally Integrated Automation Portal (TIA Portal) for SIMATIC S7-1200 forms the work environment for integrated engineering with SIMATIC STEP 7 Basic and SIMATIC WinCC Basic.

You will learn on how to install and wire the system, understand the necessary basic components to set up an automation system.

We will also teach you the handling of the TIA Portal, basic knowledge about the structure of S7-1200 automation system, configuration and parameterization of hardware, and the basics of programming.

You will learn how to clear simple hardware faults and software errors in the SIMATIC S7-1200 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 S7-1200 via PROFINET. Participants will learn how to connect to S7-1200 to the cloud via a cloud gateway to enable online I/O configuration, alert, and also data analytics.

Topics

After attending the course, you can do the following:

- Set up, install and wiring SIMATIC S7-1200
- Configuring, parameterize, and exchange SIMATIC S7-1200 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 SIMATIC S7-1200
- Basic introduction to HMI
- Programming communication between HMI and SIMATIC S7-1200
- Cloud configuration to change the IO scale
- Cloud data analytics using values from sensors
- Cloud alert configuration

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Course Certificate

SIEMENS Certificate will be awarded after the training.

Contact Information

**SIEMENS MALAYSIA SDN. BHD. (93008-X)
GST Reg No. 000956203008**

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e-Pass: siemens.asia/e-pass_v2/ASEAN

Website: www.siemens.com.my/sitrain

Bank Details

Bank Name: Deutsche Bank (M) Sdn Bhd

Bank Account Number : 0020768000

Bank Address : 18th – 20th Floor, Menara IMC 8,
Jalan Sultan Ismail,
50250, Kuala Lumpur

Bank Swift Code : DEUTMYKLXXX

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Time-wise 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 Installation Continuation 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 – 16:00 Hrs 16:00 Hrs – 17:00 Hrs	Training Unit Devices and Networks PLC Tags Programming Blocks and Editor Binary Operations Digital Operations Practical and Exercises
Day – 3	09:00 – 10:00 10:00 – 12:00 13:00 – 13:30 13:30 – 15:30 15:30 – 17:00	Introduction to HMI Programming HMI Programming HMI Continuation HMI Connection and Download Practical and Exercises
Day – 4	09:00 – 09:30 09:30 – 11:00 11:00 – 12:00 13:00 – 14:00 14:00 – 15:00 15:00 – 17:00	Cloud System Overview Cloud Connection Cloud Analytics Cloud Analytics Continuation Cloud Alarm Configuration Practical and Exercises
Day – 5	09:00 – 09:20 10:00 – 12:00 14:00 – 15:30 15:30 – 17:00	System Integration Project Overview System Integration Project System Integration Project Continuation Troubleshooting and Feedback 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