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Course Details

Totally Integrated Automation (TIA)

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**TIA PORTAL WINCC SCADA
(TIA-WCCS) 5 days**



HRDF
CLAIMABLE
SBL Scheme

Requirements

The Totally Integrated Automation (TIA Portal) provides the working environment for end-to-end engineering with SIMATIC STEP 7 and SIMATIC WinCC. The SCADA functionality (Supervisory Control and Data Acquisition) of WinCC Professional is designed for visualization and operation of processes, manufacturing cycles, machines and plants. The course is based on the possibilities of WinCC Professional in TIA Portal at the time. You will learn how to create and dynamize the required interface. You will also be shown how to log messages and values and how to design and implement the appropriate logs. After learning how to use the system safely, you can use the engineering phase effectively.

Description / Objectives

On completion of this course the participant will be able to use SIMATIC WinCC Professional efficiently and reliably on the basis of the "TIA Portal" engineering platform. Understand and edit SIMATIC WinCC Professional projects for use in the SCADA area. Optimally structure the user interface. Implement logging concepts for messages, alarms and measured values. Selectively access values in the SIMATIC S7 and display and further process these values in the HMI system on a TIA system model. This consists of a SIMATIC S7 automation system, ET 200 distributed I/O, Touchpanel, and a belt model.

Content

- System overview TIA Portal, SIMATIC WinCC Professional
- Creating a SIMATIC WinCC Professional project
- Configuring the connection to the SIMATIC S7 automation system
- Structuring the operator interface:
 - o Fundamentals of creating graphics displays for human machine interfacing
 - o Navigating through the plant displays
- User administration
- Message representation, message logging, message configuring
- Variable logging, trend configuring and trend plotting
- Trend plotting, and message representation including logging of data in the database
- Recipes
- Faceplates for reuse and centralized modification of graphics blocks
- Background processing Global Scripting

Target Group

Technical/ Maintenance Manager, Programmers.

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)

HRDF Training Provider ID: 13213/82

SITRAIN – Digital Industry Academy,
SITRAIN Training Center
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

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 TIA Portal, SIMATIC WinCC SIMATIC WinCC Professional project Configuring the connection to the SIMATIC S7 Graphics displays for HMI interface
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	Navigating through the plant displays User administration Message representation Message logging
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	Message configuring Variable logging Trend configuring Trend plotting
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	Message representation including logging of data in the database Recipes Faceplates for reuse and centralized modification of graphics blocks Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Background processing Global Scripting 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