

The Siemens logo is displayed in a bold, teal, sans-serif font.

Ingenuity for life

Course Details

Totally Integrated Automation (TIA)
in the Digital Enterprise

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**Virtual Commissioning for Machines
(DI-VIRTCOM) 5 days**

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A red starburst logo with the text "HRDF CLAIMABLE SBL Scheme" inside.

Requirements

Digital Enterprise, your path to Industry 4.0 - discover your possibilities. Today's technologies are so complex that, in order to keep up to date, it is almost essential for the training to be performed on the software and the associated training devices.

The target group of these course is comprised of configuration engineers, project planners and programmers working for medium-size and large-scale industrial companies, who deal with the automatic execution of engineering tasks. **Recommended to attend up to TIA Portal Programming Level 2 (TIA-PRO2).**

Description / Objectives

An overview of Totally Integrated Automation in the Digital Enterprise as your way towards Industry 4.0 and an overview about the interaction of the various software packages. The objective of the course is to achieve higher efficiency in the creation of PLC code and HMI visualizations for modular machines

The automatic execution of repetitive processes for identical functions, a code that can be generated more quickly and more reliably for the same processes. Reducing the engineering effort demanded by user interfaces, while standardizing the visualization across the plant. Automatically generating and creating the visualizations, based on the program code of the controller and of corresponding visualization objects within the framework of system-wide library concepts.

SITRAIN – Digital Industry Academy

TIA in the Digital Enterprise - Virtual Commissioning for Machines – (DI-VIRTCOM)

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Content

- Introduction virtual commissioning concept
- Software PLCSIM Advanced and TIA Portal
- Introduction to Siemens PLM Software NX and MCD
- Creating drawings in the NX CAD
- Creating and positioning machine elements
- Planning of the program flow in NX MCD
- Connection of NX / MCD models to PLCSIM
- Virtual commissioning of custom machines model
- Expansion and modification of the virtual machine
- Introduction of process simulation with SIMIT

Target Group

Configuration engineers, Project planners, Programmers/ Planners

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)

HRDF Training Provider ID: 13213/82

SITRAIN – Digital Industry Academy,
SITRAIN Training Center
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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	Digital Enterprise Overview Introduction of concepts for virtual commissioning Complete software-in-the-loop approach Working with PLCSIM Advanced and TIA Portal
Day – 2	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 16:00 Hrs 15:00 Hrs – 17:00 Hrs	Introduction to Siemens PLM Software NX and MCD Creating drawings in the NX CAD system Creating and positioning machine elements in the NX CAD system Practical on the above
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	Preliminary planning of the program flow in NX MCD Connection of NX / MCD models to PLCSIM Automating using the virtual machine model 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	Automating using the virtual machine model Virtual commissioning of custom machines Expansion and modification of the virtual machine Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Introduction of process simulation with SIMIT 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