

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

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

**AUTOMATIC EXECUTION OF ENGINEERING TASKS  
(DI-AUTOEN) 5 days**

**SIEMENS**

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## 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 Service Maintenance Level 2 (TIA-SERV2).**

## 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 - Automatic Execution of Engineering Tasks – (DI-AUTOEN)

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## Content

- Digitalization - Industry 4.0
- Automatic execution of engineering tasks
- Standardization as the basis for digitalization
- Standardization and storage with the aid of the TIA Portal library
- Standards in automation
- TIA Portal Openness and types of automated code generation
- Hardware and software generators and data exchange with ECAD
- Adaptation of a project generator
- Principles of the automated generation of visualizations

## 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  
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](mailto:industry.my@siemens.com)  
**e-Pass:** <https://siemens.asia/e-pass v2/ASEAN/main/>  
**Website:** [siemens.com.my/SIRT](https://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 Standardization & Automatic execution Automation & Cloud-based engineering Virtual Commissioning
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	Virtual Commissioning (cont.) Integrated energy management Machinery & Plant security Cloud Service
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	Standardization – on the way to digitalization Benefits of standardizing the PLC software Library concept in TIA Portal Opportunities for implementing a standard
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	Openness introduction Openness Operate Steps for generating visualizations with SiVArc Program block test based on PLCSIM Advanced
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Automatic Generation of HMI Screens 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