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*Ingenuity for life*



# Course Details

Totally Integrated Automation (TIA)

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

**TIA PORTAL WINCC MACHINE LEVEL  
(TIA-WCCM) 5 days**



HRDF  
CLAIMABLE  
SBL Scheme

## Requirements

When operator control of basic functions of a small machine or of complex processes is needed – the HMI is the interface between operator and automation. You will gain knowledge of how to flawlessly create operating screens for Basic Panels, Comfort Panels, Mobile Panels and Runtime Advanced with WinCC (TIA Portal).

## Description / Objectives

You will learn how to design, create and dynamize operating screens. You will learn how to log messages and values and to design and implement the corresponding archives. You can effectively use the engineering phase thanks to what you have learned about reliably operating the system.

You are tasked with creating and/or editing HMI projects. Whether you are someone who is just getting started or has already been exposed to the subject of HMIs, this course will provide you with new information so that you can work confidently with WinCC (TIA Portal). Deeper understanding of contents through practical exercises on SIMATIC S7-1500 system model

## Content

- System overview of TIA Portal, SIMATIC WinCC (machine-level)
- Creating a SIMATIC WinCC project
- Configuration of connection to the SIMATIC S7 automation system
- Basics of graphic image creation for operator control and monitoring
- User administration
- Alarm display, alarm logging, alarm configuration
- Tag logging, trend configuration, trend display
- Recipes
- Use of various HMI stations

## Target Group

- Programmers, Commissioning engineers, Configuring engineers, Service personnel, Maintenance personnel, Service personnel/ Operators

## 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,  
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46350 Petaling Jaya, Selangor.

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**e-Pass: [https://siemens.asia/e-pass v2/ASEAN/main/](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	System overview TIA Portal, SIMATIC WinCC Efficiently and reliably operate SIMATIC WinCC based on the "TIA Portal" engineering platform. Design operating screens Create screen navigation
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	Graphic image creation for operator control Graphic image creation for monitoring User administration 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	Configure alarms & messages communicate Alarm display, alarm logging, alarm configuration Tag logging, trend configuration, trend display 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	Implement archiving concepts for alarms Recipes Use of various HMI stations Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:00 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Comfort Panel communication with PLC 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