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Ingenuity for life

Course Details

Totally Integrated Automation (TIA)

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**TIA PORTAL PROGRAMMING LEVEL 2
(TIA-PRO2) 5 days**

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

HRDF
CLAIMABLE
SBL Scheme

Requirements

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

The second part of the SIMATIC TIA Portal programming training is based on the knowledge of the TIA Portal gained in the SIMATIC S7 TIA Portal programming 1 course (TIA-PRO1), including STEP 7, HMI, and PROFINET IO. Recommended to attend TIA-PRO1.

Description / Objectives

You will expand your knowledge of complex operations in statement lists (STL) and in Structured Control Language (SCL). Along with analog value processing and data administration with complex data types, the evaluation and handling of program-related errors are also considered.

Building on this, you will learn how to display messages on the operator control and monitoring system (HMI). Thanks to the knowledge imparted, you will gain new impetus and ideas for efficient PLC programming

Content

- Understand the interaction of the TIA components
- Apply classical program development methods
- Solve comprehensive programming tasks
- Program advanced functions such as indirect addressing in Structured Control Language (SCL)
- Implement data administration with the SIMATIC S7 automation system
- Apply system blocks along with blocks from the standard STEP 7 library
- Understand the fundamental differences between optimised access and non-optimised block access
- Program software error handling and evaluation
- Configure alarms of the operator control and monitoring system (HMI)

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

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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 – 09:20 Hrs 09:20 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	System Family overview Tools for program creation Analogue value processing Functions, function blocks Practical on the above
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	Jump Commands Indirect addressing Classical software error handling and evaluation with blocks (OBs)
Day – 3	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:30 Hrs 15:45 Hrs – 17:00 Hrs	Evaluation of diagnostic data Troubleshooting Alarms with a HMI device 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	Structured Control Language (SCL) S7-GRAPH Statement lists (STL) Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Configure TIA Components Practical on the above Q&A/ Feedback

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