Course Details

Totally Integrated Automation (TIA)

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TIA PORTAL PROGRAMMING LEVEL 1 (TIA-PRO1) 5 days

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.

In this first part of the SIMATIC TIA Portal programming training, we teach you the handling of the TIA Portal, basic knowledge about the structure of the SIMATIC S7 automation system, configuration and parameterization of hardware, and the basics of standard PLC programming. You also receive an overview of HMI, PROFINET IO, and connecting drives.

Description / Objectives

This course provides Participants with a solid base of STEP 7 PLC tools and skills necessary for successful system diagnostics and repair. This course is ideal for environments with high uptime requirements and stable control system programs. Fully functional application programs are used as a baseline for the participant to understand key process flow information, diagnostics tools and repair techniques. Build skills and reduce downtime with this focused automation system troubleshooting course.

Content

- Understand the fundamentals of interaction of the TIA components
- Solve simple programming tasks using elementary STEP 7 instructions
- Reliably operate the "TIA Portal" engineering platform
- Program simple plant functions with basic STEP 7 instructions in the ladder diagram (LAD)
- or function block diagram (FBD)
- Perform simple commissioning of TIA components

Target Group

Technical/ Maintenance Manager, Programmers.

Contact Information

SIEMENS MALAYSIA SDN. BHD. (93008-X)
HRDF Training Provider ID: 13213/82

SITRAIN – Digital Industry Academy,
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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 10:15 Hrs – 12:00 Hrs 13:00 Hrs – 15:00 Hrs 15:15 Hrs – 17:00 Hrs	SIMATIC System Family overview Training Units and Addressing Installation/Maintenance of PLC 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	SIMATIC Manager Symbols Hardware Configuration Practical on the above
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	Hardware Commissioning Block Architecture and Block Editor Binary Operations 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	Digital Operations Introduction to HMI Tags & Monitoring Practical on the above
Day – 5	09:00 Hrs – 10:00 Hrs 10:15 Hrs – 12:30 Hrs 12:30 Hrs – 13:00 Hrs	Documentation PLC Commissioning 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