

FUNDAMENTAL TIA PORTAL PLC PROGRAMMING TRAINING

• SERVICE/PROGRAMMING ENGINEER LEVEL 1

Basic training program for TIA Portal would typically focus on giving participants a solid foundation in using Totally Integrated Automation (TIA) Portal software for programming and managing automation systems

Scan for registration



Overview

The Totally Integrated Automation Portal (TIA Portal) forms the work environment for integrated engineering with SIMATIC STEP 7. 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 and PROFINET IO. You can deepen your theoretical knowledge with numerous practical exercises on a TIA system model. This consists of a SIMATIC S7 automation system, ET200 distributed I/O, Touchpanel, and a belt model.

Learning Outcome

- Understand the fundamental of interaction of the TIA Components
- Solve simple programming task using elementary STEP 7 instructions
- Reliably operate the 'TIA Portal' engineering platform
- Program simple plant functions with basic STEP 7 instructions in ladder (LAD) and function block (FBD) diagram
- Perform simple commissioning of TIA components
- Diagnose, Servicing & Troubleshooting skill in STEP 7

Pre Requisite

Basic knowledge of automation technology

Duration : 3 Day

Time : 9am - 5pm

Location : Skilllab Training Center,
Perai, Penang

Who Should Join

Automation Programmers, Commissioning engineers, Engineering personnel, etc

Training Provider : MTA Skilllab Sdn Bhd

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Training Module

- Session 1 : TIA Portal Step 7 Software Configuration
- Session 2 : Step 7 Programming LAD, FBD, Functions & Function Block
- Session 3 : Special Operation (Timer)
- Session 4 : Special Operation (Counter)
- Session 5 : Hardware configuration and parameterisation of the SIMATIC S7-1500 modules, a PROFINET IO system (ET-200SP), a Touch Panel (TP 700) over PROFINET
- Session 6 : Program documentation, Saving, Diagnose, Servicing & Troubleshooting
- Session 7 : Practical exercise on belt conveyor

Equipment & Tools

- Standard TIA Portal Training Kit
- Conveyor System

Trainer

MEng in Mechatronic Engineering, well spoken and many years lecturing experience in University. Entitlement of Professional Technologist from MBOT.

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