

TIA Test Drive (STR-TIOILUNI1B)

Type

Instructor-led Learning

Duration and Continuing Education Units (CEU)

1 Day 1 session per day
0 CEUs

Target Group

- Engineer

Short Description

This event is for Engineers and Automation Specialists requiring an introduction to the fundamental aspects of engineering automation solutions by applying Totally Integrated Automation concepts in accordance with recommended best practices. The event assumes experience in other manufacturers' product and in the overall knowledge of automation system engineering, applications, and the associated tasks required to implement a solution.

Prerequisite for this event is a solid background in automation system engineering, including PLC configuration and programming, HMI configuration, and integration of these components into a system-centric solution.

Objectives

- Complete a system hardware configuration in the context of a Scenario Based Learning exercise using the TIA Selection tool to create the Control System Architecture
- Import AML file, Develop, Expand, & Document a structured STEP7 program using Project Libraries & PLC SIM to test, debug & evaluate code
- Use essential PLC instructions within all Block types OB's, FC's, FB's. Work with I/O Tags, Global DB Tags and Tag structures
- Integrate HMI, Link HMI Tags to PLC Tags, Develop HMI screens, Trends, Slide Ins & Pop Ups
- Use Technology Object to control GP G120 Drive, Integrate Safety, Distributed I/O over Profinet

Content

- Siemens TIA Philosophy
- Overview of the TIA Portal
- S7 Hardware Selection & TIA Selection Tool
- Hardware Configuration
- Introduction to programming the S7 PLC
- Efficient Program Management
- WinCC Introduction
- Adding Drives & Motion
- Integrate Safety

Language

English

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