









PROFIBUS & PROFINET Communication Network

Course Description

This training course provides you the ability to to design, commissioning and sustaining of PROFIBUS and PROFINET networks. The course uses a 'hands-on' practical approach to reinforce the theoretical aspects of the training.

Target Audience

Programmers, commissioning engineers, service personal and configuring engineers.

Pre-requisites

- Basic computer skills with Windows 7 very helpful.
- knowledge of PLC level (1) and level (2) training course.

Duration

• Class room: 5 days, 6 hours/day.

• On line: 10 days, 3 hours/day.

Address: 27 Orabi St, Office (706) El-Azbakia, 11111-Cairo.

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Course Outline

- Install and troubleshoot PROFIBUS DP Networks.
- Install and troubleshoot PROFIBUS I/O, ET200M and ET200S.
- Configure a CPU as a DP Master or as an Intelligent DP Slave.
- Configure a CP342-5 as a DP Master or as a DP Slave.
- Configure a DP/DP Coupler to link two independent PROFIBUS Networks.
- Configure and troubleshoot S7 connections.
- PROFINET IO with configuring and programming.
- Commissioning the media redundancy.
- Plant-wide engineering & diagnostics in the TIA Portal.
- Data communication Controller / Controller with:
 - an S7 connection to the S7 communication blocks, PUT/GET, BSEND/BRECEIVE
 - Ethernet connections (ISO on TCP, TCP, UDP) to the T-communication blocks, T-Send/T-Receive

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Course Agenda

Day 1	 Communication Techniques Used in Automation Engineering. Technology of PROFIBUS. Transmission media for PROFIBUS. Configuration of a CPU as a PROFIBUS DP Master.
Day 2	 PROFIBUS DP Slaves. Remote I/O using PROFIBUS. Examples for remote I/O. Configure PROFIBUS network.
Day 3	 CPU to CPU PROFIBUS communication. Send and receive instructions. Troubleshoot network.
Day 4	 Introduction to SIMATIC Net - Industrial Ethernet. PROFINET IO device types: IO controller, IO device, IO supervisor. Examples for remote I/O. Configure PROFINET network.
Day 5	 CPU to CPU PROFINET communication. S7 connection to the S7 communication blocks, PUT/GET, BSEND/BRECEIVE. Ethernet connections (ISO on TCP, TCP, UDP) to the T-communication blocks, T-SEND/T-RECEIVE. Troubleshoot network.

Note: -

This course could be applied on SIMATIC Manager or TIA Portal

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