

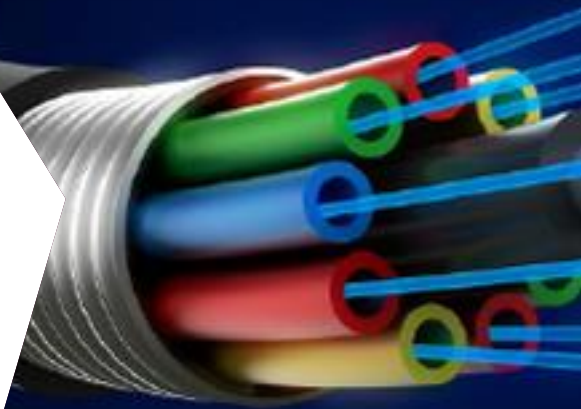
# PLC Training - Industrial Networks

**Course Code: DA-AB-NWRS**

## Training meant for

This course provides you with the skills necessary to efficiently design and configure an Industrial network. This course also enables you with the skills needed to safely and efficiently return a malfunctioning network to normal operation, including: implementing a logical process for troubleshooting Industrial Networks components, identifying problems with communications cards, cabling, and other network hardware, applying best practices and network troubleshooting tools.

After completing this course, you will have designed an Industrial Network system that will serve as the backbone of your Automation System and will have configured capable hardware to behave as a deterministic Industrial network.



**ControlNet™**

**EtherNet/IP™**



# Requisites

Background in Electrical/Electronics/Instrumentation engineering

Basic knowledge of programming an Allen-Bradley PLC system or comparable PLC-types.

## Course Contents

- Introduction industrial data networks
- Serial connections; RS232/RS422/RS485 and Protocols; DF1 / DH-485 / Modbus / ASCII
- ModbusTCP / Profibus / DeviceNet / ControlNet / Ethernet /
- Performing Initial Configuration of a Managed Switch
- Configuring EtherNet/IP Settings on Automation Devices
- Creating and Assigning VLANs on a Stratix 5700 Switch
- Configuring Network Address Translation (NAT) for a Stratix 5700 Switch
- Monitoring EtherNet/IP Network and Device Status
- Design and troubleshoot a ControlNet media system
- Go online to a ControlNet network
- Enter scheduled ControlNet I/O data connections for Logix5000 controllers
- Identify DeviceNet network components and design a DeviceNet cable system
- Create a DeviceNet network configuration
- Commission nodes on a DeviceNet network
- Configure a DeviceNet scanner module
- Map inputs and outputs on a DeviceNet network
- Profibus Network Overview & Cabling
- SST PROFIBUS Scanner & Configuration & Diagnostics

## Methodology

Courses offered by Diligent Automation are with proficient trainers.

Presentations (theory and examples) as well as practical exercises bring life to the courses. A laptop with necessary software installed will be given to each candidate during the training session.

Training kits will be provided to execute practical sessions.

- ▶ **Course Duration is 7 Days (56 Hours)**
- ▶ **Max 12 candidates per batch**
- ▶ **Course Fee: 25000 INR (Inclusive of all Taxes)**

**For more details,**

Log into [www.diligentautomation.com](http://www.diligentautomation.com)

**For any queries,**

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