

Training Overview PROFIBUS



Target Group

Hands-on troubleshooting training for individuals from the commissioning, maintenance, and service departments. Basic knowledge of industrial automation is recommended.

Training Objectives

- Understand the basics of PROFIBUS technology and its areas of applications
- Learn the planning, installation, acceptance, and maintenance of PROFIBUS systems
- Be able to use diagnostic tools effectively
- Carry out quality assurance and troubleshooting in PROFIBUS networks

Contents of the Course

1. Introduction to PROFIBUS technology

- Overview of the PROFIBUS fieldbus technology
- Laying and installation standards according to IEC 611158, IEC 61784
- Guidelines and recommendations of the PROFIBUS User Organization (PNO)
- Communication in PROFIBUS – devices principles

2. Installation and Assembly

- Topology – the basis of optimal data communication
- Guidelines for correct wiring
- Typical sources of errors and their impacts

3. EMC & Equipotential Bonding

- Taking EMC interferences already into consideration during the planning phase
- Detecting and eliminating EMC weak points in existing installations (functionality of a shield, functionality of potential equalization, ways of coupling if there are disturbances)
- Fault analysis/troubleshooting and measures for eliminating weak points

4. PROFIBUS Diagnosis

- Most important diagnosis parameters and handling of diagnostic tools
- Simulation of several error scenarios incl. troubleshooting on sample setup

Troubleshooting Tools Used for Training

- PROFtest II
- PB-Q One
- PROFIBUS-INspektor® NT
- EMCcheck® clamps – LSMZ I, MWMZ II, ISMZ I
- PROmanage® SCADA

To register for this course or for other training inquiries please email us at sales@indusolamerica.com.