Certified PROFINET Installer

A PI-Certified Competency and Training Center

An Internationally accredited introductory course for PROFINET installers and all people involved with PROFINET at a technical level.

Do you want to ensure a reliable and maintainable PROFINET installation?

Then make sure that your installation team is fully qualified by attending the Certified PROFINET Installer Course. The course has become the accepted basic standard for many industries and it is anticipated that many organisations will insist that anyone involved with PROFINET at a technical level is trained to at least the Certified Installer level.

The Certified PROFINET Installer Course is a one-day course that teaches the layout, installation and testing of complete PROFINET networks. The course is accredited by PROFIBUS and PROFINET International and is now recognised across the world as the best introductory course in PROFINET technology.

The course provides a practical, hands-on approach to network layout and installation and covers the essential requirements for a successful and maintainable PROFINET network. Examples and case study materials are used throughout to highlight the many common, but potentially very costly, pitfalls and mistakes that are made in laying out and installing PROFINET systems.

Why bother with Certified training?

Industrial Ethernet, and particularly PROFINET, provides a reliable and cost-effective solution for a wide range of instrumentation and control equipment used in manufacturing, materials handling, automated storage, building and process industries. However, industrial Ethernet installation is fundamentally different from other types of electrical installation because it uses high-speed digital communications. It is a well-documented

fact that most of the faults that we find in industrial Ethernet installations are caused by simple errors in layout and installation. With this training, such problems can be avoided at the outset, rather than after the installation is complete, when correction may require expensive re-routing or re-wiring.

The course incorporates theory and practical tests fully accredited by PROFIBUS and PROFINET International and is offered across the world as the standard in PROFINET installation training.

Who should attend the course?

Perhaps confusingly, the course is not just for installers, but provides the basic but essential information for anyone who is involved with PROFINET at a technical level: i.e. designers, commissioning engineers, maintenance technicians and of course installers. The course also provides an essential pre-requisite to more advanced training like the PROFINET Commissioning and Maintenance Course and the Certified PROFINET Engineer Course. Although centred on the most widely used industrial Ethernet technology, PROFINET, most of the course content is equally applicable to other industrial Ethernet technologies.

No prior knowledge of industrial Ethernet systems is required before attending. Nevertheless, even very experienced fieldbus engineers who have previously attended the course say that they have gained valuable knowledge on how to avoid problems.

What does the course cover?

A practical approach to the layout of PROFINET networks is used to show how to apply the basic rules to design real factory and plant layouts. Topics such as connection technologies, cable and network testing are covered using a hands-on approach with up-to-date equipment.

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The course starts with the differences between Ethernet and Industrial Ethernet technologies like PROFINET and then goes on to cover in detail:

- PROFINET Real time and non-real-time communication.
- System Configuration including GSDML files and PROFINET Device names.
- Common wiring and layout pitfalls, modern cable and connector systems.
- Considerations for network maintenance and commissioning.
- PROFINET conformance classes.
- Wiring and installation testing.
- Configuration Tools.
- Interference pickup (EMC), cable routing and earthing considerations, earth potential problems and their avoidance.

Practical and multiple-choice theory tests at the end of the course ensure that the attendees understand the material

and are competent in wiring and testing PROFINET networks. Successful candidates will be awarded Certified PROFINET Installer status and can elect to have their name and company affiliation listed on the profibus.com web site.

Can the course be delivered on-site?

The course is available for on-site training for up to 12 people and is often combined with the PROFINET Commissioning and Maintenance course or the Certified PROFINET Engineer Course. We can even arrange for the trained team to carry out a half-day on-plant network health check using the training kits. This makes a cost effective solution for companies who want their whole installation/ maintenance teams trained and certified.

The Certified PROFINET Installer Course has been widely accepted as a recognised qualification across the world.

Booking Information – for dates, costs and booking information, please contact:

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Control Specialists Ltd are a PROFIBUS and PROFINET International Training Centre (PITC) who also provide site-based support on PROFINET networks. They also provide training and support on PROFIBUS, AS-I and CAN.

Peter Thomas of Control Specialists Ltd is the chairman of the PITC working group which, amongst other things, is responsible for defining the learning outcomes of PI-certified training courses.

Endress+Hauser training centre in Manchester