

Manchester Metropolitan University Automation Systems Centre Certified PROFIBUS Installer Course



Internationally Accredited One-day Course covering the layout, Installation and Maintenance of PROFIBUS Networks

Want to ensure reliable and trouble-free PROFIBUS installation?

Then make sure that your engineering team is fully qualified by attending the Certified PROFIBUS Installer Course.



The Certified PROFIBUS Installer Course is a one-day course that teaches the layout, installation and testing of complete PROFIBUS networks. The course uses a hands-on, practical approach to fieldbus installation. The course makes sure that installation technicians are fully aware of the requirements for successful PROFIBUS installations and highlights how to avoid many common, but potentially costly, pitfalls.

Developed and operated by the PROFIBUS International Competency Centre (PICC) at Manchester Metropolitan University (MMU), the course covers the theory and practice of PROFIBUS installation. High standards of competency are ensured by the inclusion of written and practical tests within the course. The course is fully accredited by PROFIBUS International and is offered across the world as the standard in PROFIBUS installation training.

Why bother with Certified Installation training?

Fieldbus, and particularly PROFIBUS, provides reliable and cost-effective technology for a wide range of instrumentation and control equipment used in manufacturing, storage, building and process industries. However, fieldbus installation is fundamentally different from other types of electrical

installation because it uses high-speed digital communications. When problems are encountered, they are invariably caused by simple errors in layout, cabling or connections. With certified 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 Certified PROFIBUS Installer Course gives a widely recognised and valued qualification that confirms the competence of trainees in the layout and installation of PROFIBUS DP and PA networks.



Who should attend the course?

The course is not just for installers. It is applicable for anyone who is involved in the planning, design, layout, installation and commissioning of PROFIBUS networks. Although centred on the most widely used fieldbus technology, PROFIBUS, most of the course is equally applicable to other fieldbus technologies.

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

The course is specified by many companies across a wide range of industries as a pre-requisite for anyone working on PROFIBUS systems. The course is also now a pre-requisite for attending the Certified PROFIBUS Engineer course.

What does the course cover?

The course starts with the basics of PROFIBUS DP and PA transmission technologies, including RS485, MBP and fibre optics. The course then goes on to cover in detail:

- Basic PROFIBUS DP and PA network technology, station types and addressing, network configuration and start-up.
- Causes, effects and avoidance of transmission-line reflections and the importance of correct line-termination.

- Network and segment size limitations and the effect of transmission rate.
- Common wiring and layout pitfalls, modern cable and connector systems.
- Use of repeaters, couplers, link modules and fibre-optic segments.
- Wiring and installation testing and the use of bus test tools.
- Interference pickup (EMC), cable routing and earthing considerations.
- Earth potential problems and their avoidance.



The course has been delivered overseas on several occasions. For example, there are over 200 Certified Installers in South Africa and Australia all trained by Manchester Metropolitan University.

A practical approach to the layout of PROFIBUS 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.

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 PROFIBUS networks. Successful candidates will be awarded Certified PROFIBUS Installer status and can elect to have their name and company affiliation listed on the profibus.com web site.



Certified Installers
In South Africa

Can the course be delivered on-site?

The course is available for on-site training for up to 12 people. This makes a cost-effective solution for companies who want their whole installation / maintenance teams certified.

A sample of comments from previous attendees

- "Excellent course. Recommended to anyone who is involved in fieldbus installation."
- "For one day we covered much more than I would have expected."
- "The course was excellent and added much of value to my PROFIBUS experience."
- "It is imperative that installers of PROFIBUS networks attend this course"
- "Really enjoyed it and learned a lot; can't wait to come back for the Engineers Course"

Booking Information - Download the booking form and further details from: www.profi-bus.co.uk

For dates, prices, booking information & onsite courses contact:

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In-Depth Technical Information

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