

PROFIBUS & PROFINET Training and Events 2013

Certified PROFIBUS Installer Course - 24 Jan, 4 Mar, 25 Apr, 23 May, 1 July, 19 Sept, 21 Oct, 11 Nov, 9 Dec 2013 (Also available on-site for up to 12)

An essential course for electrical engineers and technicians needing to upgrade their skills to include fieldbus installation. This one-day, hands-on course teaches the design, installation and testing of complete PROFIBUS networks including DP, PA and optical fibre technology. Covering bus layout and termination, grounding rules and practices, the course will teach delegates how to avoid common, but potentially expensive, installation problems. [More Information](#)

Note 1. The dates for the Certified Installer course (above) and the Commissioning & Maintenance course (below) are consecutive to allow them to be taken together.

PROFIBUS Commissioning & Maintenance Course - 25 Jan, 5 Mar, 26 Apr, 24 May, 2 July, 20 Sept, 22 Oct, 12 Nov, 10 Dec 2013 (Also available on-site for up to 12)

A one-day course designed as an add-on to the Certified PROFIBUS Installer Course. Covering the practical techniques of faultfinding on "operational" PROFIBUS networks. Techniques taught on the course include the use of a modern PROFIBUS analyser and Class-II master (engineering tool) to diagnose network faults, device faults and I/O problems. Students also learn how to use a soft digital storage oscilloscope in conjunction with these tools to diagnose and accurately locate cable, connection and device faults. This course will be certified by MMU. The Certified PROFIBUS Installer Course is a pre-requisite for attending this course. [More Information](#)

Note 2. – Once you have completed the above courses, you are equipped to progress to the Certified Engineer course, which can be taken separately on the following dates:

Certified PROFIBUS Engineer Course - 18-20 Mar, 15-17 July, 7-9 Oct, 25-27 Nov 2013 (Also available on-site for up to 12)

Certified PROFIBUS Engineer is an in-depth course covering PROFIBUS DP and PA network operation, design, commissioning and live fault-finding. The Certified PROFIBUS Installer and the Commissioning & Maintenance courses are an essential pre-requisite to attending this course. The course covers basic cyclic data exchange (so-called DP-V0) and DP-V1 extensions that are used in PA devices and more complex DP devices. Most of the course is involved with understanding and interpreting the various telegrams that pass between devices. The 'Certified PROFIBUS Engineer' course is a world-wide recognised training program. It is standardised by PROFIBUS International. [More Information](#)

System Design Course - 18 March, 15 July, 7 October, 25 November 2013

This course covers the optimal design of networked automation and control systems. Centred on PROFIBUS and PROFINET technology, but also covering the use of Ethernet & AS-i technology and system software. A pre-requisite to the Certified PROFIBUS Engineer course, the System Design Course builds on the basic knowledge of the Certified Installer and provides additional knowledge on designing not only PROFIBUS systems, but also how to use Ethernet, PROFINET and other technologies appropriately. The Certified PROFIBUS Installer & Commissioning Course is a pre-requisite for attending this course. [More Information](#)

PROFIBUS Product Development Course - TBA – please [email](#) if you have a requirement

A one-day course for product manufacturers and engineering companies who want to develop a PROFIBUS product. If you are a manufacturer of drives, transmitters, or intelligent valve actuators, you need to implement the latest technology in your products. PROFIBUS technology is the way forward. This one-day course will give you an overview of the technology plus details of the communication protocol, tools and methods to get you started correctly on development of your own PROFIBUS products. [More Information](#)

PROFIBUS Engineer Refresher Course - 18-20 Mar, 15-17 July, 7-9 Oct, 25-27 Nov 2013

Did you qualify as a Certified PROFIBUS Engineer more than 3 years ago? Beginning to feel a little "rusty"? Previously-certified PROFIBUS Engineers can now take advantage of a new way to keep up to date with current developments, cover new content such as the system design course and obtain a new-style certificate. Find out about the latest developments in PROFIBUS technology, systems/network design, the latest techniques in PROFIBUS network/device configuration, engineering and diagnosis and new functions of instruments such as ProfiTrace. [More Information](#)

Certified PROFINET Installer Course – 15 May, 10 July, 19 Nov 2013

An essential course for electrical engineers and technicians needing to upgrade their skills to include industrial ethernet installation. This one-day, hands-on course teaches the design, installation and testing of complete PROFINET networks and will teach delegates how to avoid common, but potentially expensive, installation problems. [More Information](#)

PROFINET Product Development Course – TBA – please [email](#) if you have a requirement

This training course is for both PROFINET product developers and for a wide range of audience who want to know PROFINET and industrial Ethernet. The course content is carefully selected to fit into a one-day schedule and contains the most important aspects of PROFINET. [More Information](#)

Certified PROFINET Engineer Course (including Certified PROFINET Installer Course) - 15-17 May, 10-12 July, 19-21 Nov 2013

This training course provides a detailed technical knowledge of the PROFINET technology and the advantages it offers your automation and production processes. At the end of the training there will be a theory exam. Participants who pass get the title Certified PROFINET Engineer and are awarded an official certificate. Successful participants will have the confidence to evaluate PROFINET as a solution for their automation requirements and be able to design a proper application. [More Information](#)

Industrial Wireless Networks - Configuration and Deployment – TBA please [email](#) if you have a requirement.

Wireless networks are increasingly being used in the automation industry with applications as diverse as controlling AGVs, storage shuttles and production cranes. As bandwidth demands increase with PLC upgrades PROFINET wireless is also being used to overcome PROFIBUS limitations such as slip-rings. Presented in conjunction with [Daconi Wireless](#), this one day course shows how a PROFINET or PROFISAFE network can be securely and reliably deployed over an Industrial Wireless LAN network. This hands-on course covers configuration of Industrial Wireless LAN equipment and explains how to avoid the common pitfalls to successfully deploy an industrial wireless network. The Certified PROFINET Installer Course is a pre-requisite for attending this course. [More information](#)

Certified Open-PLC Programming - Level 1: Online as required.

Level 2: TBA – please [email](#) if you have a requirement (Also available on-site for up to 8)

The PROFIBUS Competence Centre at Manchester Metropolitan University (MMU) in the UK has introduced a 2 level course covering Open-PLC programming using the international standard IEC 61131-3. The course is designed for Engineers and Technicians who want to gain a recognised qualification in open-PLC programming using IEC 61131-3. The course is suitable for experienced Programmers who wish to move to IEC 61131-3 compliant systems. Level 1 is online and a pre-requisite to Level 2 which is 3 days' duration. [More Information](#)

CoDeSys V3 training course – TBA – please [email](#) if you have a requirement

CoDeSys is a widely used system that fully utilises many functions of IEC61131. CoDeSys Version 3, released in 2006, has set a new standard in object-oriented programming for automation tasks. CoDeSys V3 Basic is a 3-day training programme, developed and run by the German company, 3S Smart Software Solutions. The course is for everyone who wants to know modern PLC programming. No prior knowledge of CoDeSys V2.3 or other PLC programming skills are required. [More Information](#)

Certified AS-i Engineer Course - TBA – please [email](#) if you have a requirement (Also available on-site for up to 8)

Also offered by MMU and bookable through The PROFIBUS Group is this two-day course that teaches the theory and latest practice of the Actuator Sensor Interface. Using a hands-on, practical approach, you will learn how to use AS-i intelligent sensors, actuators and remote I/O in the most efficient and effective way and see how to integrate AS-i into higher fieldbus systems. You will build, configure and exercise your own AS-interface system from scratch. The course also includes an overview of the AS-i "safety at work" profile. Successful graduates will receive a "Certified AS-i Engineer" certificate. [More Information](#)

PROFIBUS & PROFINET Network Diagnostics – TBA

This new free-to-attend one-day seminar addresses the key practical issues arising from the use of digital communications technologies in automated manufacturing and advanced engineering applications. Covering the use of PROFIBUS and PROFINET in application areas across all of industry, it focuses on the practical aspects of maintenance and diagnostics. Supported by demonstrations and hands-on workshops of actual tools used in diagnosis and maintenance, the seminar will be of great value to Production Engineers and System Engineers involved in operation, fault-finding and maintenance of modern automated factories and machinery. [More Information](#)

Practical Aspects of PROFIBUS & PROFINET in Process – TBA

This seminar addresses the key practical issues arising from the use of digital fieldbus communications technologies in process and hybrid industries. Covering the use of PROFIBUS PA in key application areas such as Pulp & Paper, Chemical, Utilities, Pharmaceutical, Oil & Gas today, it focuses on the practical aspects of using PROFIBUS in process industry applications from system design and hazardous area considerations through to maintenance and fault-finding. Supported by live demonstrations of actual tools used in calibration and maintenance, the programme will be of great value to Instrument Technicians/Engineers, C&I Engineers and System Engineers involved in design, operation and maintenance of modern process plant. [More Information](#)

Practical Aspects of PROFIBUS & PROFINET in Factory Automation – TBA

This seminar addresses the key practical issues arising from the use of digital communications technologies in automated manufacturing and advanced engineering applications. Covering the use of PROFIBUS and PROFINET in key application areas such as packaging, printing, electrical and electronics assembly, robotics, automotive engineering, drives, mechanical handling and logistics, control systems and energy management, it focuses on the practical aspects of using PROFIBUS and PROFINET in factory automation applications from system design and safety considerations through to maintenance and fault-finding. Supported by live demonstrations of actual tools used in configuration and maintenance, the programme will be of great value to Designers, Production Engineers and System Engineers involved in design, operation and maintenance of modern automated factories and machinery. [More Information](#)

Functional Safety and IT Security – TBA

A new, free to attend, seminar covering crucial design, installation and maintenance issues for safe and secure automation systems using PROFIBUS, PROFINET and PROFIsafe. This new, one-day seminar addresses the key safety and security issues arising from the use of digital communications technologies in automated manufacturing and advanced engineering applications. [More Information](#)

PROFIBUS Consultancy

The PROFIBUS Competence Centre at Manchester Metropolitan University also offers a range of services for PROFIBUS users including on-site consultancy and fault-finding. Contact <mailto:uk@profibus.com> for further details.



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