

*Certified PROFINET  
Installer/Commissioning &  
Maintenance Course*

[Course Overview](#)



Profibus Association of  
Australia and NZ Inc.  
Unit 7, 2-8 South St.  
Rydalmere NSW 2116  
AUSTRALIA

*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.

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.

The Commissioning & Maintenance course is a practical course based around a working PROFINET network. Each pair of students has a rack of devices and laptop with hardware and software tools from several vendors.

Techniques taught on the course includes diagnostics provided by PLC's, Switches and Permanent network monitors. It purposely avoids the use of telegram analysers like Wireshark which are covered in detail in the Certified PROFINET Engineer Course.

The course covers how to health check a working PROFINET system and quickly troubleshoot and locate problems. The course is very practical, based on hands-on exercises using a working system on which faults can be systematically introduced.

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.

**Booking Information – dates, costs and booking information,**

Melbourne – Monday 22 July-Tuesday 23 July 2019  
Venue – TBA

Sydney – Monday 29 July-Tuesday 30 July 2019  
Venue – TBA

Perth – Monday 5 August-Tuesday 6 August 2019  
Venue – TBA

Cost – Members \$1850, Non-members \$2500

Booking – complete details below for initial registration, confirmations will only be issued when a Purchase Order is received, or when pre-payment is made

Participant Name: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Do you require a formal quotation? Y or N (please circle)

Please indicate your preferred location

Melbourne

Sydney

Perth

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This course is delivered by:



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.