

## 1. Introduction

The course material has been created by Control Specialists Ltd, a PROFIBUS and PROFINET International Training Centre (PITC) and a company with on-going practical experience in site-based auditing and support of PROFIBUS, PROFINET, Ethernet I/P, AS-I and CANBUS networks.

Before the course commences, as part of the registration process, Photo ID will be required to verify the identity of each delegate. The same Photo ID will need to be brought to the nominated Exam Day premises. Both courses will commence on a Monday (dates to be confirmed), access will be for 12 days with Exam on the Friday of week 2. The Course Overview shows how each aspect will be delivered (see appendix A).

## 2. Workflow

### 2.1 Certified PROFIBUS Installer

Each delegate should be prepared to spend 6 hours of their time made up of accessing the pre-recorded material and cross-checking with the course notes in advance of the examinations.

This is a PI-Certified Training course whose content will be delivered in pre-recorded material via an online course hosting service that can be accessed using a conventional web browser (see appendix B). Each delegate will be given a set of course notes in .PDF format and 2 weeks (12 days) of access to the pre-recorded material to allow them to prepare for the online examination – the course material can be accessed at any time during the 12-day period from any PC / Tablet. A test kit will be shipped to a nominated premises, this kit will be used to allow each delegate to practice making up and testing a cable and will also be used during the practical exam. The kit will consist of the following:-

- 1 \* 2m length of PROFIBUS DP cable for each delegate
- 3 \* PROFIBUS DP Connectors for each delegate.
- 2 \* PROFIBUS DP Cable Stripping Tools (shared).
- 2 \* HP 25 PROFIBUS DP Cable Testers (shared).

#### Examinations

The examinations (practical and theory) are to be taken by all delegates at the same time at the nominated premises (see appendix C). Each delegate will need to have access to a PC / Laptop set up as follows:-

- Web-browser connection to the internet to allow access to the theory exam hosting service and Microsoft Teams, the latter being used to interact with the instructor during the exam.
- A web cam and microphone must be enabled at all times.

### Practical Examination:

An area (table) needs to be set up where each delegate can demonstrate their ability to add 3 PROFIBUS connectors to 2 lengths of PROFIBUS DP cable using a cable stripping tool and then test it with a cable tester in the supplied kit. Each delegate must be individually recorded during the demonstration - The video must clearly show the delegates face as this will be cross-checked with Photo-ID provided during registration.

### Theory Examination:

This is done entirely online using a conventional web browser and is an open-book exam, i.e., the delegate can refer to the .pdf course notes whilst taking the exam. The exam will last one hour and the delegate will be given one opportunity to complete it. In the event of a failure, another opportunity to take the exam will be given once the instructor has advised the delegate on areas of concern. The delegate must have their webcam / microphone enabled at all times.

A PI Certified Installer Certificate will be issued to all delegates that achieve 70% in both the practical and theory examinations.

## **2.2 PROFIBUS Commissioning and Maintenance**

This is an uncertified Training course made up of pre-recorded material and an instructor-led aspect. Each delegate will be given a set of course notes in .PDF format and 2 weeks (12 days) of access to the pre-recorded material to allow them to prepare for the instructor-led part – the course material can be accessed at any time during the 12-day period from any PC / Tablet (see appendix D).

The instructor-led aspect of the course is to be taken by all delegates at the same time at the nominated premises. Each delegate will need to have access to a PC / Laptop set up as follows:-

- A web cam and microphone must enabled at all times.
- TeamViewer Installed – the connection will use a Control Specialists Ltd license.
- Microsoft Teams Installed – the connection will use a Control Specialists Ltd license

The instructor-led aspect will take place in a single, 4-hour, session, where each delegate will be given remote access to a laptop connected to a live PROFIBUS network (see appendix C).

A PAANZ Certificate of Attendance will be issued to all delegates that have completed this course.

## 2.3 Training Organisation

### 2.3.1 Registration

- Payment for the training must be made in full, or a Company Purchase Order has been supplied.
- On receipt of payment or PO, dates for each aspect of the course will be confirmed.
- Each delegate is to provide a Photo ID (passport/ drivers licence) for course registration.

### 2.3.2 Certified PROFIBUS Installer

- The practical training kit will be shipped to the nominated premises.
- Each delegate will be given 12-day access to the Certified PROFIBUS Installer pre-recorded material as well as a .pdf copy of the course notes.
- On the examination day, each delegate will be given access to the theory examination.

### 2.3.3 PROFIBUS Commissioning and Maintenance

- On completion of the Certified PROFIBUS Installer course, each delegate will be given 12-day access to the PROFIBUS Commissioning & Maintenance pre-recorded material as well as a .pdf copy of the course notes.
- On the day arranged for the instructor-led aspect of the training, each delegate will be given access to the live PROFIBUS network for 4 hours.

### 3. Deliverables

- Delegates will follow the PI-certified training that meets the requirements defined in the respective PI Learning Outcomes. In addition, each delegate will receive the following:
  - .PDF copy of the course notes.
  - Time-limited access to course material
  - Time-limited access to the instructor-led aspect (Commissioning & Maintenance only)
  - Those delegates that meet the required criteria in the Certified PROFIBUS Installer course will receive a certificate issued on behalf of PROFIBUS and PROFINET International (PI).
  - Certificates of attendance will be issued where PI certificates are not applicable or where the delegate has failed to meet the criteria for PI certification.

### 4. Appendices

- 4.1 Appendix A – Course Overview
- 4.2 Appendix B – Certified Installer Flow
- 4.3 Appendix C – Exam Day Overview
- 4.4 Appendix D – Commissioning and Maintenance Flow

Appendix A.

CERTIFIED PROFIBUS INSTALLER (CPI)	COURSE	EXAM
THEORY	SELF-PACED TIMED ACCESS	ONLINE EXAM DAY
PRACTICAL	SELF-PACED TIMED ACCESS	ONLINE EXAM DAY

**Target Audience:**

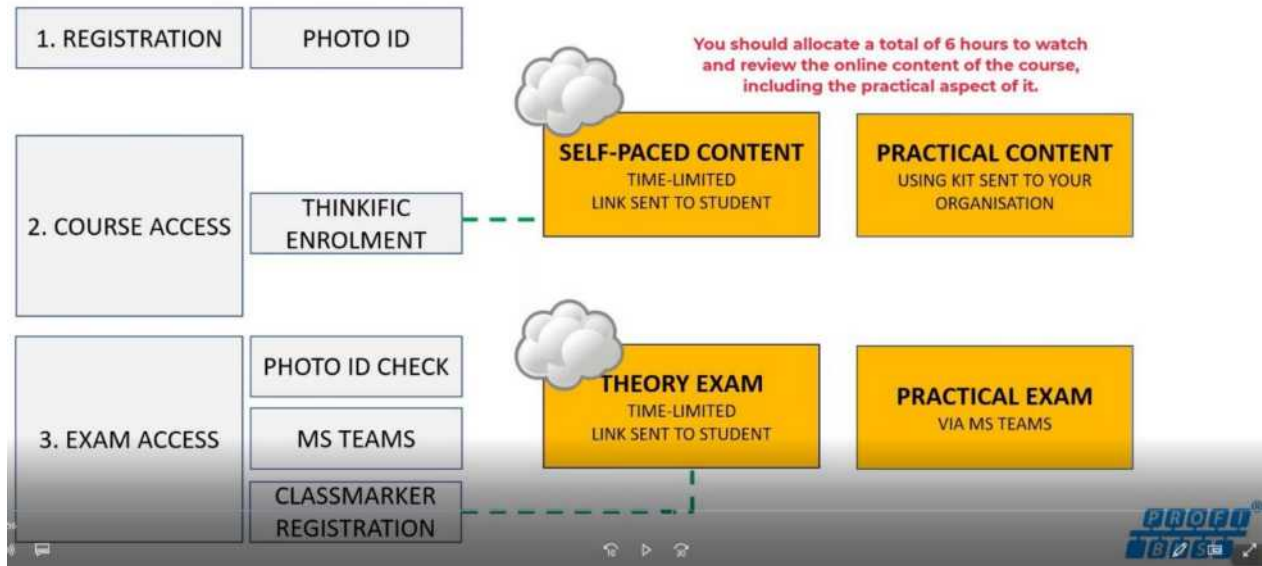
Anyone involved in the design, installation or support of PROFIBUS Networks

PROFIBUS COMMISSIONING & MAINTENANCE (PCMC)	COURSE
THEORY	SELF-PACED TIMED ACCESS
PRACTICAL	SELF-PACED / INSTRUCTOR-LED

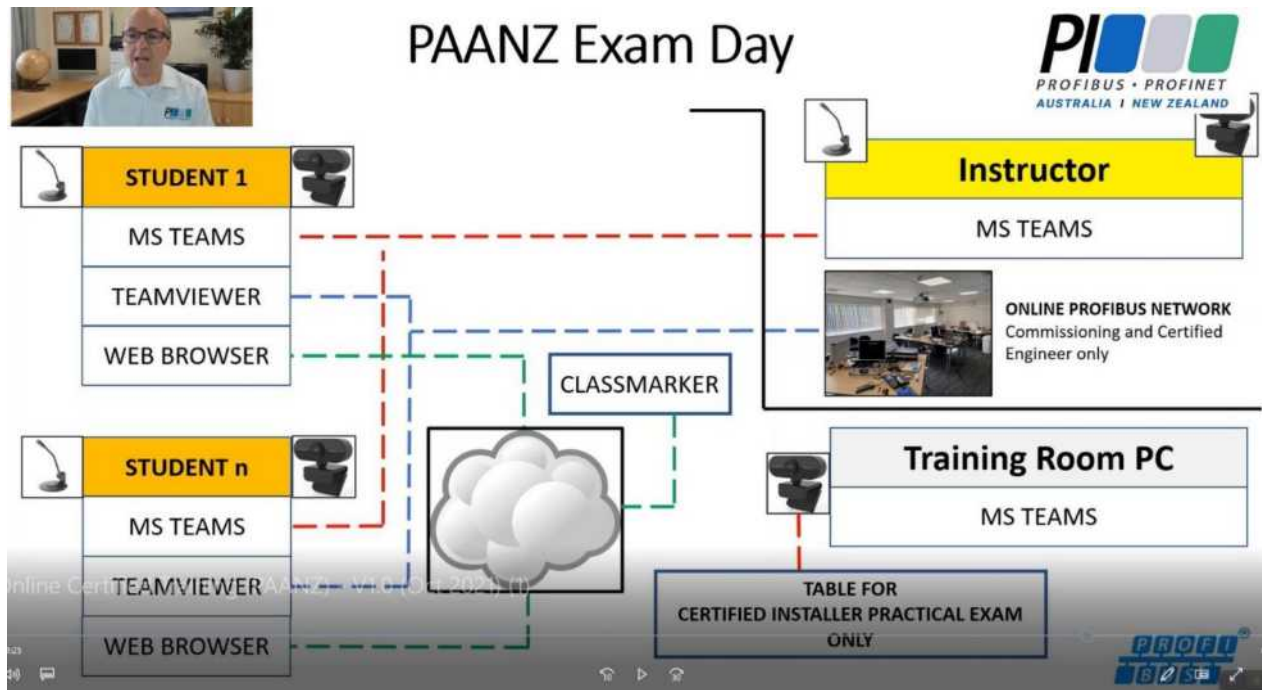
**Target Audience:**

A non-certified course for Technicians and Engineers wanting a basic introduction to auditing and fault-finding on live PROFIBUS networks.

## Appendix B.



Appendix C.



## Appendix D.

