

Commissioning and Maintenance Training

A one-day course covering the practical techniques of the configuration, qualification and diagnosis of "operational" ETHERNET I/P networks.

Who is this course aimed at?

The ETHERNET I/P Commissioning and Maintenance course provides a vendor-independent intermediate level of training for technicians and engineers who are involved with the configuration, commissioning, health checking and fault finding on operational ETHERNET I/P systems.

What does the course cover?

This is a practical course based around a working CIP-based ETHERNET I/P network consisting of Ethernet IO devices and switches. Prior to creating the network controlled by a Rockwell PLC, the students will use the CODESYS PLC development software together with a single-board PC acting as a PLC to configure a smaller network of their own and in doing so gain a better understanding of the role of an EDS file.

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, although this can be included on request.

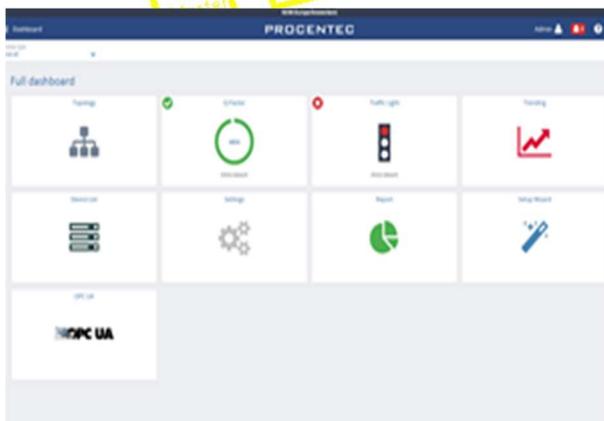
The course covers how to health check a working ETHERNET I/P system and quickly troubleshoot and locate problems. The course is very practical, based on hands-on exercises using a working system on which faults can be systematically introduced.

The course is available for on-site delivery and at selected locations around the country for up to 12 people and online in an instructor-led format for groups of 3 (assuming some pre-knowledge of industrial ethernet networks). The course can also be delivered overseas providing a cost-effective alternative to sending staff to the UK.



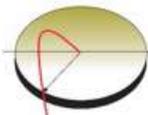
As an optional addition to the on-site training, we can offer half a day of on-plant training for the engineers who take the Installer and Maintenance Course. This can involve supervised checking of a working system at the customer's site.

Note that responsibility for plant production and personnel safety will remain the responsibility of the Company should this option be chosen. Please see the conditions of supply at our web site.



TOPICS Covered

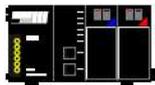
- An Introduction to ETHERNET
- Industrial ETHERNET Protocols
- An Introduction to Ethernet I/P and the CIP Protocol
- Scanners, Adaptors and Switches.
- Network Configuration and EDS Files (including CodeSys and Rockwell RSLogix 5000)
- Implicit and Explicit Messaging
- Installation and Operational Qualification of an Ethernet I/P Network.
- Network Diagnostic Tools



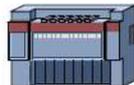
Control Specialists Ltd

EtherNet/IP™

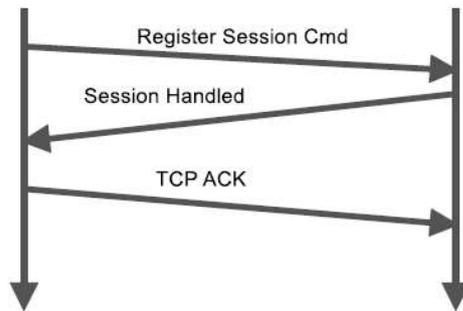
Commissioning and Maintenance Training



I/O Scanner



I/O Adapter



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



Control Specialists Ltd

Tel: +44(0)1925 824003 | Fax: +44 (0)1925 824004
 cslsales@controlspecialists.co.uk
 www.controlspecialists.co.uk

Control Specialists Ltd are a PROFIBUS and PROFINET International Competency Centre (PICC) as well as a PROFIBUS and PROFINET International Training Centre (PITC). We also provide site-based support on PROFINET networks as well as training and support on PROFIBUS, PROFINET, AS-I, CAN, IO-LINK and EMC Awareness for industrial automation systems.

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