

FREE!

2011 PROFINET TRAINING CLASSES

PROFINET, the All-Encompassing Industrial Ethernet

Learn how you can use one network for IO, process instruments, motion controllers and functional safety—integrated with the IT environment providing enterprise transparency from top to bottom. PROFINET meets your manufacturing and management challenges, supporting the latest automation strategies using a standard, unmodified Ethernet infrastructure where speedier, more productive manufacturing is accompanied by easier, more effective asset management. And with far less downtime because faults can be found and fixed faster—even remotely. See live demos and hear application stories in the following areas:

Machine Building

How do you use PROFINET to add a complete control system to a machine? This section shows how to use PROFINET IO, wireless connections, interfaces to process instruments, and interfaces to conventional fieldbuses.

Machine Integration

You buy best-in-class equipment from different suppliers and you cannot afford to pay their up-charges to use your preferred brand of controls. How do you integrate those individual machines into a working line? With PROFINET such peer-to-peer integration involves configuration, not programming.

Motion Control

It's one thing to use Industrial Ethernet for IO and integration, but is it fast enough to use for motion control? PROFINET is! See how the same network that handles IO and regular TCP/IP traffic can also control 150 axes of motion control with sub-millisecond update times and less than one microsecond of jitter.

Safety

Since 2002, codes in the US have allowed functional safety to be applied in logic controllers and over a fieldbus. We will show why PROFIsafe is safe as it runs on PROFIBUS or PROFINET, wired or wireless.

Vertical Integration

Just because Ethernet is used in the office and in the plant does not mean that information can be sent from the plant to the office. You still need a protocol to define what is transmitted and how. PROFINET is the only Industrial Ethernet with a specification for this.

Learn about the next evolution in automation: PROFIBUS to PROFINET

PI North America, in cooperation with the PROFI Interface Center, is conducting a series of one-day training classes, complete with a multi-vendor PROFINET Demo. These classes are designed to introduce automation professionals to the power and scope of PROFINET Industrial Ethernet. They teach both basic and advanced concepts, plus practical installation and troubleshooting techniques. Engineers at all levels need to attend this training so that they are equipped for the next evolution of fieldbus technology.

Energy Savings

In a time where our society is looking to become more energy conscious, PROFINET delivers an incredibly flexible PROFInergy profile. Originally designed at the request of the automotive industry, PROFInergy is quickly finding acceptance as an essential energy saving tool in many vertical industries. This class will expose attendees to a world of cost savings via PROFInergy.

The Network

What are the design considerations for the network and the network hardware? Are managed Ethernet switches needed or will unmanaged work? What topologies can be used? Line topology like a fieldbus? What are the cable requirements? How can troubleshooting be done? All these good questions will be answered as we demonstrate what is needed.

Training Class Agenda

- 8:00 am** On-site registration and light breakfast
- 8:30 am** Course begins
- Noon** Lunch hosted by PI North America
- 4:00 pm** Wrap-up

Breaks are provided in mid-morning and mid-afternoon. Door Prizes are awarded. Attendees receive a certificate for 5.5 Professional Development Hours (PDH).

Each attendee will receive a printed book of the presentations and a Resource CD containing the presentations, brochures, technical literature, installation guidelines, and much more.





Coming to a City Near You Dates & Locations

Complete schedule including exact dates & locations for this & other training classes can be found at us.profinet.com

FEB 24, 2011 Houston, TX, Houston Marriott South Hobby

MAR 23, 2011 Greenville, SC, Greenville Marriott

APR 12, 2011 Mt. Laurel, NJ, The Hotel ML

MAY 10, 2011 Richmond, VA, Richmond Marriott

JUNE 23, 2011 Cincinnati, OH, Crowne Plaza Cincinnati North

JULY 19, 2011 Spokane, WA, Red Lion Hotel at the Park

AUG 23, 2011 Boston, MA, Doubletree Hotel Boston/Westborough

SEPT 14, 2011 Rochester, NY, Rochester Airport Marriott

OCT 13, 2011 Milwaukee, WI, Milwaukee Marriott West

NOV 10, 2011 Burlington, ON, Burlington Hotel & Confer. Centre

NOV 29, 2011 Chicago, IL, Chicago Marriott Schaumburg

Register on-line at www.us.profinet.com

Those registered will receive a confirmation email upon registration and reminder emails prior to the class.

Register Now, Seating is Limited!

What Past Attendees Have Said:

"Very good course. It provided enough detail to evaluate PROFINET's potential in our architecture and provided enough detail to differentiate it from other "Ethernet" protocols (especially when explaining it to management). The demos and videos were instructive and interesting."

"Great seminar. I didn't have any previous PROFINET experience, and the information gave me a good overview."

"Good class, our group benefited from it and we are already implementing it in the field."

"Instructors were very good. Knowledgeable and enthusiastic."



More Resources for PROFINET

For news, new product announcements, application stories, and information on webinars and other classes, subscribe to the PROFInews North American Edition at www.profinews.us.

Take a guided tour of PROFINET based on your specific interest: www.AllThingsPROFINET.com.

For breaking news and opinions on the industrial automation market and PROFIBUS, visit www.PROFiblog.com.

Full-week Certified Network Engineer classes are also available. Visit the Certified Training section of www.us.profinet.com.

Multi-Vendor Product Fair

Representatives from several sponsoring automation companies will be displaying PROFINET products for review before and after the class, during lunch and during breaks.

Get a first hand look at the latest PROFINET component products from vendors such as Anixter, AWC, Balluff, C&E Sales, Control Corp of America, Crum Electric, Electro-Matic, Endress+Hauser, GE Intelligent Platforms, Great Lakes Controls, Grid Connect, Harting, Hilscher, HMS, Molex, Murrelektronik, PCC, Pepperl+Fuchs, Phoenix Contact, ProSoft, Richard Equipment Company, RTA, SICK, Siemens, Softing, Steiner, Trebing+Himstedt and TURCK.

Class sponsored by the following companies:

