



PCC 

TechEd 

## Industrial Ethernet Made Simple

Ethernet is quickly emerging as the new de facto standard for the factory floor. However there is still confusion and concerns regarding the benefits, reliability and maintainability of this technology. This seminar will breakdown Industrial Ethernet starting with the basics then builds from there to help simplify this communication technology for the audience.

**Course Length & Time** 1/2 Day, 9:00 AM - 12:00 PM, Lunch to follow

**Topics to be covered:**

- Basic Ethernet Terminology
- Advantages of Ethernet over Fieldbus
- Industrial Ethernet vs. Commercial Ethernet
- Networking Architectures
- Ethernet Protocols
- Supporting Redundancy, Safety and Motion Control

Complete TechEd schedule can be found at [www.pccweb.com/education](http://www.pccweb.com/education) | Registration can be done online or by contacting Liz Martin at (262) 250-2176 or [events@pccweb.com](mailto:events@pccweb.com)

PCC TechEd courses are a great opportunity to receive FREE training on a wide variety of industrial automation and electrical control topics such as emerging technologies, industry standards and best practices. PCC's TechEd is not always product or manufacturer specific but focus on simplifying the subject matter to help increase your effectiveness at work or advance your career.

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## Motion Made Simple

Motion Control is becoming a critical technology as mechanical solutions can not meet the increased modularity, flexibility, speed and precision requirements needed to meet customer demands. This seminar will help familiarize the audience with the basics of motion control technology and its application.

**Course Length & Time** 1/2 Day, 9:00 AM - 12:00 PM, Lunch to follow

**Topics to be covered:**

- Basic Motion Terminology
- Types of Motion
- The Mechanics of Motion Systems
- Speed Transmission Devices
- Servo Motors
- Motion Controllers & Drives
- Sizing Drives & Motors
- Application Example Project

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## Siemens S7-1500 Test Drive

The SIMATIC S7-1500 controller family is a comprehensive portfolio offering extremely fast response times, drive integration, safety integrated, security integrated, easy commissioning, & integrated system diagnostics for the full range of medium & high-end applications. It is fast, features great communication options, and is programmed with easy-to-operate, easy-to-learn software.

This is an opportunity to test drive this powerful yet cost effective PLC solution in a hands on workshop. Lunch will be provided.

**Course Length & Time** 1/2 Day, 9:00 AM - 12:00 PM, Lunch to follow

### Topics to be covered:

- TIA Portal integration of PLC, HMI and drives in ONE software environment
- Library feature to reuse program parts that have already been developed
- Get a PLC, HMI and Drive configured and working in a short time
- Learn to display system generated faults on the PLC display, HMI Screen, Engineering and Web Server, WITHOUT any additional user programming
- Learn how user generated fault information can be simply added/displayed on the PLC display, HMI Screen, Engineering and Web Server
- Learn to use the "Types" feature of the Libraries, to allow program blocks to be reused, tested and then version controlled
- Learn to use blocks converted to "Types" to easily update in a project or Global Library so they can be shared across a company's product portfolio

\*Every attendee will have the opportunity to purchase a reduced price S7-1500 Starter Kit comprised of a CPU 1511-1PN, 16DI Module, 16DO Module, Power Supply, Rail, Memory Card, Ethernet Cable & Time Limited Software.

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\*Only 1 kit per company. Offer pricing subject to change. Please inquire on current offer.



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## NEW WORKSHOP - The Latest Features of HMI Panels

This NEW HMI workshop for 2016 will dive into the unique features of the Siemens HMI not covered in 2015 Comfort Panel Test Drive. This three hour hands on event will allow you to experience more advanced capabilities of the Siemens HMI solution.

**Course Length & Time** 1/2 Day, 9:00 AM - 12:00 PM, Lunch to follow

**Topics to be covered:**

- Siemens HMI Portfolio Hardware/Software overview presentation
- Interfacing Siemens HMI with Rockwell PLC
- Faceplates and Advanced Library capabilities
- Pop-Up Windows and Slide in Screens
- Trending and HMI Alarms
- Remote Monitoring and Control
- Innovative backup/restore options
- Using an HMI in the TIA Portal to Connect to a PLC Configured in Step 7 V5.5

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