

# ACD CONNECT

## SIEMENS TAKES SAFETY ON TOUR

### New Safety Innovation Tour to Visit Locations All Over the Country

As part of its ongoing effort to bring technology and solutions directly to its customers, Siemens Industry announced that it has launched a Safety Innovation Tour. The tour, which will visit cities across the United States, features live demonstrations and seminars on how to seamlessly integrate certified safety protection into a company's automation architecture. Additionally, Siemens will demonstrate two brand new wireless safety products.

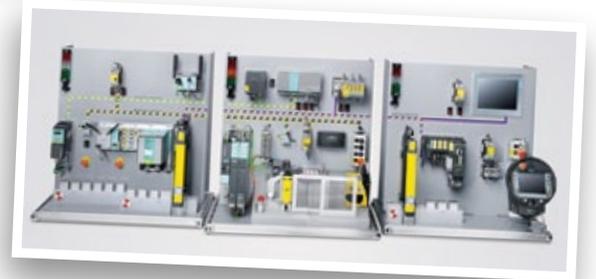
Attendees will be introduced to web-based tools that evaluate the actual safety level achieved per the new safety standards. They will also see demonstrations of the latest innovations in safety bus technologies from a simple device bus up to real time Ethernet; including wireless solutions will be demonstrated. The events will also introduce safety integrated PC-based automation.

The tour will display safety rated drives with safe motion, safety controller with integrated Web access, all on a single bus to operator panels and plant wide operation. Whether the application requires a single safety relay, a complex safety solution of coordinated control or anything in between, attendees will see solutions demonstrated that could save engineering time and maintenance costs while improving machine efficiency.

The sessions will cover a variety of safety topics including:

- PC-based safety
- Basic of new safety standards
- Safety rated drives with safe limited speed
- Simple integrated message functions
- Embedded diagnostic web pages
- HMI showing detailed fault location of the safety functions
- Safe Ethernet communications
- Wireless safety communications
- Simple drive networking
- Safety networking with AS-Interface
- Programmable safety relays

These no-cost events are an opportunity to learn from the experts in safety automation, share best practices and learn about the latest technology trends. Currently underway, the Safety Innovation Tour has already visited 12 cities and is scheduled to be in the Pittsburgh area March 16 thru the 17th and in Erie on the 18. If you need further details, please contact ACD at 800-866-7740 for registration details and for the location nearest you. •



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# ACD

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## Simple communication via Ethernet in RFID applications using TCP/IP



Siemens Industry, Inc. has released a new communication module specifically geared to connecting RFID (Radio Frequency Identification) read/write devices to Ethernet networks

The RF182C offers users several new features, including dual RFID channels that ensure real-time operation at the dynamic read points and XML-structured data records that make programming easier. The RF182C offers a web processor and a browser interface can connect and be leveraged to manage firmware updates and other functions. Integrating XML means the communication module can be easily integrated in a PC environment or connected to commercially available controllers. Additionally, the RF182C is highly ruggedized, with an IP67 rating. Since it does not need the protection of a control cabinet, it can be installed directly on the factory floor or into the process itself. It boasts a powerful hardware configuration that ensures rapid data communication with the read/write device and is easy to service or replace without interrupting the network because the Ethernet parameterization data is saved to the connection block.

## ACD adds ACME Electric to our ever-growing product offering

Acme Electric is a full line manufacturer of low voltage (600 V and below) dry type distribution transformers using both copper and aluminum conductor, offering an array of products between 0.50-1000 KVA.



Acme's product offering covers the full spectrum of applications, from commercial general power distribution and high harmonic conditions to specific industrial motor drive/factory automation systems, to low voltage landscape lighting applications. All Acme products are designed constructed and rated to meet or exceed the standards established by UL, CSA, CE, NEMA, ANSI and IEEE.

## ACD hosts NFPA 70 E® training



ACD hosted NFPA 70E training at our facility in Monroeville with over 30 people

in attendance. The trainer for the class was Bob Drane CSM, OSHS, STS who is an OSHA Master Trainer as well as a NFPA 70E trainer. Bob has trained some of the largest manufacturing firms in the United States.

The course consisted of three main parts first OSHA 29-1910 Background Safety Overview then NFPA 70E Safe Work Practices and finally Specific Equipment Requirements. The class was a mix of class training, informational videos and hands on learning. Each participant that completes the verification of understanding received a NFPA 70E qualification card. This class was so successful that many customers have requested doing the training at their own facilities. If you or your company would be interested in having the NFPA 70E class at your facility please give Steve Battaglia at ACD a phone call and he will help you set up a class. Steve can be reached at 800-866-7740.

# TRAINING SCHEDULE

## WORKSHOPS

Register for training with ACD at 1-800-866-7740

### WORKSHOPS AT OUR MONROEVILLE, PA OFFICE

#### **NEW** SIMATIC S7-1200 - Compact Controller with Advanced Functionality

April 27, 2010

9:00am – 12:00 preceded by lunch

The S7-1200 is a new modular space-saving controller for small automation systems that require either simple or advanced functionality for logic, HMI and networking. It is both compact and highly powerful –especially in relation to its real-time performance. It is fast, features great communication options, and is programmed with easy-to-operate, easy-to-learn software. Attend the S7-1200 Workshop for a hands-on trial!

#### Siemens Standard Drives - Return on Investment (ROI)

May 12, 2010

9:00am – 12:00 preceded by lunch

Energy savings is an important topic that affects every one of us. Electricity costs are rising and VFDs (Variable Frequency Drives) can greatly reduce your energy consumption and, therefore, your electricity bill. In this training course, you will learn exciting new ways to leverage unique tools and innovations from Siemens to reduce your energy usage.

#### Ethernet Infrastructure Hands On

September 14, 2010

9:00am – 12:00 preceded by lunch

This event will show how to implement an effective industrial Ethernet solution on the plant floor. Topics to be covered include the configuration and network management of Managed Switches, setup and configuration of wireless architectures, setting up a simple firewall, and protection from an unauthorized network.

#### SIMATIC RF300 - Basics of Radio Frequency Identification

November 10, 2010

9:00am – 12:00 preceded by lunch

This event will introduce both the RF300 system and the S7 FB45 RFID programming functions. Some of the topics to be covered in the session include basic RFID concepts, hardware and software architectures, communication capabilities, and programming RFID Systems.

### WORKSHOPS AT OUR ELKVIEW, WV OFFICE

#### **NEW** SIMATIC S7-1200 - Compact Controller with Advanced Functionality

April 28, 2010

9:00am – 12:00 preceded by lunch

The S7-1200 is a new modular space-saving controller for small automation systems that require either simple or advanced functionality for logic, HMI and networking. It is both compact and highly powerful –especially in relation to its real-time performance. It is fast, features great communication options, and is programmed with easy-to-operate, easy-to-learn software. Attend the S7-1200 Workshop for a hands-on trial!

#### Siemens Standard Drives - Return on Investment (ROI)

May 13, 2010

9:00am – 12:00 preceded by lunch

Energy savings is an important topic that affects every one of us. Electricity costs are rising and VFDs (Variable Frequency Drives) can greatly reduce your energy consumption and, therefore, your electricity bill. In this training course, you will learn exciting new ways to leverage unique tools and innovations from Siemens to reduce your energy usage.

#### Ethernet Infrastructure Hands On

September 15, 2010

9:00am – 12:00 preceded by lunch

This event will show how to implement an effective industrial Ethernet solution on the plant floor. Topics to be covered include the configuration and network management of Managed Switches, setup and configuration of wireless architectures, setting up a simple firewall, and protection from an unauthorized network.

#### ACDCONNECT Available Online.

The ACD CONNECT newsletter is now available online. To receive your newsletter electronically, send an e-mail to Steve Battaglia ( sbattaglia@acdinst.com ) with the subject line: ACD CONNECT VIA EMAIL.



# SPECIALIZED TRAINING EVENTS

## SITRAIN™ TRAINING EVENTS AT ACD\*

Register for trainings at [www.sea.siemens.com/training](http://www.sea.siemens.com/training) or call ACD at 1-800-866-7740.

### SIMATIC® S7 S7 TIA Programming 1

Mar. 9, June 14, Aug. 30, and Dec. 6, 2010

This course is the first in a three part series, which builds basic programming skills with Siemens STEP7 software. Students will learn S7 project management, program design and application development. This is an aggressively paced curriculum covering the S7 programming editor with Ladder, Function Block Diagram, and Statement List programming languages, and key software tools. This course takes a systems approach to the S7300/400 PLC's, plus basic connectivity and functionality of an HMI and PROFIBUS remote I/O.

Throughout this course, students will build a STEP7 project from the beginning, learning proper program structure and documenting. Software diagnostic tools will be used for debugging both hardware and code. Various instruction sets, memory areas, program blocks, and libraries will be introduced to provide the student with solid concepts of structured programming.

The course format consists of instruction and hands-on exercises. The course uses a conveyor model for realistic demonstrations and exercises.

Upon completion of this course, the student shall be able to:

- Complete a system hardware configuration.
- Build, document, test and troubleshoot a structured STEP7 program.
- Program using the multiple address types.
- Use symbolic addressing.
- Use core application instructions, functions and blocks.
- Program using the processed analog values.
- Generate data blocks.
- Establish connections to an HMI system.
- Integrate an HMI to Control the Automation system

### SIMATIC® S7 S7 System Tools & Troubleshooting 1

Apr. 5 and Oct. 4, 2010

This course provides students with a solid base of STEP 7 PLC tools and skills necessary for successful system diagnostics and repair. This course is ideal for environments with high uptime requirements and stable control system programs. Fully functional application programs are used as a baseline for the student to understand key process flow information, diagnostics tools and repair techniques. This course also focuses on core hardware issues for system commissioning, upgrades or system repair needs. Build skills and reduce downtime with this focused automation system-troubleshooting course.

Modular in design, this course is fully customizable for those interested in on-site training. Topics can be added or removed to meet specific needs. Call 1.800.241.4453 for more details.

Upon completion of this course, the student shall be able to:

- Identify and maintain the components of a typical automation system.
- Perform basic hardware assembly, cabling, wiring and testing.
- Establish communications with the PLC with multiple technologies.
- Use standard S7 tools for testing and debugging hardware and software problems in an existing program.
- Retrieve, Archive, and Download programs.
- Use the hardware configuration editor to inspect and troubleshoot hardware problems.
- Use SIMATIC Manager tools for basic program administration tasks.
- Follow program power/logic flow and interpret/modify basic program elements

\*each class is a 4 1/2 day course

ADVANCED CONTROLS & DISTRIBUTION



1100 RICO ROAD, EAST BUILDING  
MONROEVILLE, PA 15146  
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TRAINING SCHEDULE  
WORKSHOPS

MORE DETAILS INSIDE THIS ISSUE  
REGISTER AT ACD: 1-800-866-7740

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WORKSHOPS

TRAINING SCHEDULE