

## Earn Valuable Continuing Education Units (CEUs) or Professional Development Hour (PDH) Credits

ISA enhances the value of attending this year's 2013 ISA Water/Wastewater and Automatic Controls Symposium (WWAC)—to be held 6-8 August 2013 in warm, inviting Orlando, Florida, USA—by offering two content-rich technical courses in conjunction with this industry event. Both courses qualify for IACET-approved and FDEP-approved CEUs or for professional development hours:

- **Using the ANSI/ISA99 (IEC 62443) Standards to Secure Your Industrial Control System (IC32)**—Examines in detail how the ANSI/ISA99 standards can be used to protect critical control systems (Earn 1.4 CEUs/14 PDHs!)
- **Industrial Flow Measurement Overview (EI10C)**—Describes the principles of operating specific flowmeter technologies and applying flowmeters in process applications (Earn 0.7 CEUs/7 PDHs!)

**Register today** to get the most out of your WWAC Symposium experience, and to gain technical know-how and practical skills—direct from industry experts—you can immediately apply at your workplace.

### ISA Training: World-class instruction with real-world application

ISA technical training is recognized globally for its unbiased, practical approach to learning. ISA courses draw on the in-depth marketplace experience of more than 100 prominent subject matter experts across virtually all technical fields in automation. Instruction is as innovative—continually reflecting emerging market dynamics and new technologies—as it is flexible—available in a variety of formats, from traditional classroom settings (both offsite and onsite) to online, instructor-assisted courses and live and pre-recorded webinars.

#### ISA training:

- **Fills in** missing knowledge and skills gaps
- **Teaches** the hows and whys
- **Improves** the effectiveness of on-the-job training
- **Provides** continuing education credits
- **Expands** professional networks

## 2013 WWAC Symposium

Now in its eighth year, ISA's 2013 WWAC Symposium offers a unique opportunity for automation, instrumentation, and SCADA professionals in the water and wastewater sectors to gain best-practice insights, share ideas, network, and earn continuing education credits.

This three-day, solutions-focused gathering will outline the critical challenges affecting essential processing and distribution of water treatment, and showcase the strategies, techniques, technologies, and people at the forefront of success and innovation. Key topics covered include emerging trends, smart water optimization, system integration, alarm management, human factors, and plant successes.

**When:** 6–8 August 2013

**Where:** Crowne Plaza—Universal Hotel, 7800 Universal Blvd, Orlando, Florida, USA

**Conference Registration:** Pricing available online

Visit [www.isa.org/WWACT2013](http://www.isa.org/WWACT2013) for event details and to register.

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Maximize your educational experience at the 2013 ISA Water/Wastewater and Automatic Controls Symposium (WWAC)

## Earn IACET and FDEP approved CEUs

when you attend either of these two valuable ISA training courses to be conducted at the event:

- Using the ANSI/ISA99 (IEC 62443) Standards to Secure Your Industrial Control System (IC32)—1.4 CEUs
- Industrial Flow Measurement Overview (EI10C)—0.7 CEUs

Earn IACET and FDEP-approved CEUs or PDHs while learning about industrial flow measurement or about the ANSI/ISA99 (IEC 62443) security standard!

Setting the Standard for Automation™

# Earn CEUs or PDHs while you expand your skills and knowledge!

Course attendees will receive a certificate for IACET-approved and FDEP-approved CEUs issued by ISA and the FSAWWA.

## In-Depth SCADA Cybersecurity

### Using the ANSI/ISA99 (IEC 62443) Standards to Secure Your Industrial Control System

Earn 1.4 CEUs!

**Date:** 5–6 August 2013 **Instructor:** John Cusimano, CFSE, CISSP

The move to using open standards such as Ethernet, TCP/IP, and web technologies in supervisory control and data acquisition (SCADA) and process control networks has begun to expose these systems to the same cyberattacks that have wrecked so much havoc on corporate information systems. This course provides a detailed look at how the ANSI/ISA99 standards can be used to protect your critical control systems. It also explores the procedural and technical differences between the security for traditional IT environments and those solutions appropriate for SCADA or plant floor environments.

#### You Will Be Able To:

- Discuss the principles behind creating effective long-term program security
- Interpret the ANSI/ISA99 (IEC 62443) industrial security guidelines and apply them to your operation
- Explain the concepts of defense in depth and zone/conduit models of security
- Analyze the current trends in industrial security incidents and methods hackers use to attack a system
- Define the principles behind the key risk mitigation techniques, including anti-virus and patch management, firewalls, and virtual private networks
- And more...

#### You Will Cover:

- How Cyberattacks Happen
- Creating A Security Program
- Using ISA-99.00.02—Risk Analysis
- Using ISA-99.00.02—Addressing Risk with:
  - Security Policy, Organization, and Awareness
  - Selected Security Countermeasures
  - Implementation Measures
- And more...

Register or learn more at:  
[www.isa.org/2013/IC32/WWAC](http://www.isa.org/2013/IC32/WWAC)

#### Classroom/Laboratory Exercises:

- Develop a business case for industrial security
- Conduct security threat analysis
- Investigate scanning and protocol analysis tools
- Apply basic security analysis tools software

#### Course Details

**Course No.:** IC32

**Time:** 8:00 a.m.–4:00 p.m.

**CEUs (PDHs):** 1.4 (14)

**Training Course Registration:** US\$1,115 ISA Member  
US\$1,255 Affiliate Member  
US\$1,395 Community Member/List  
US\$1,115 Group Rate  
(Lunch included with registration.)

## Selection and Sizing of Flowmeters

### Industrial Flow Measurement Overview

Earn 0.7 CEUs!

**Date:** 6 August 2013 **Instructor:** Jerry Gerlich, ISA Senior Member

This short course will present applications of modern flow measurement systems. In addition, flowmeter accuracy, performance, sizing, specification, selection, and installation considerations are covered. Focus is on productivity improvement and cost efficiencies of measurement and control. Whether, when, and how to use the technologies that measure flow; the effect of fluid properties; and engineering practices required to optimize flowmeter performance will also be covered. This course includes practical examples of flowmeter selection and problem solutions, with emphasis, based on class preference, on basic principles or alternative technologies.

#### You Will Be Able To:

- Describe principles of operation on specific flowmeter technologies
- Evaluate flow instrument performance
- Specify and select the appropriate flowmeter for your applications
- Solve typical flowmeter problems
- Size flow elements for specific applications
- And more...

#### You Will Cover:

- Engineering Practices
- Flowmeters
  - Differential Pressure
  - Magnetic
  - Mass
  - Oscillatory
  - Positive Displacement
  - Ultrasonic
  - Insertion
- Flowmeter Selection

Register or learn more at:  
[www.isa.org/2013/EI10C/WWAC](http://www.isa.org/2013/EI10C/WWAC)

#### Course Details

**Course No.:** EI10C

**Time:** 8:00 a.m.–4:00 p.m.

**CEUs (PDHs):** 0.7 (7)

**Training Course Registration:** US\$495 ISA Member  
US\$565 Affiliate Member  
US\$630 Community Member/List  
US\$495 Group Rate  
(Lunch included with registration.)

## Leverage the experience of our expert instructors!



**John Cusimano, CFSE, CISSP** is director of exida's security services division. A process automation safety, security, and reliability expert with more than 20 years of experience, Cusimano leads a team devoted to improving the security of control systems for companies worldwide. He has conducted or supervised numerous cybersecurity assessments of control system products, systems, sites, and corporations. Cusimano is chairman of ISA99 WG4 TG2 Zones & Conduits committee and co-chair of ISA99 WG4 TG6 Product Development committee. Cusimano is involved in the ISA99 standards committee on control system security; the ISA Security Compliance Institute; and a variety of other ISA99, ISA84, and ICSJWG working groups. He is a qualified Achilles™ communication robustness test engineer. Cusimano has a Bachelor of Science in Electrical & Computer Engineering from Clarkson University.



**Jerry Gerlich**, an ISA Senior member, has more than 32 years of experience in process control and petrochemical instrumentation. His background includes troubleshooting, maintenance, repair and calibration of control systems and custody transfer equipment, engineering plant change, and project packages. Gerlich also has to his credit extensive experience as an educator—he has been teaching since 1983. Gerlich holds a Bachelor of Science from Southwest Texas State University.

Space is limited—  
register early!  
To register  
or learn more, visit  
[www.isa.org/  
2013/WWAC/T2013](http://www.isa.org/2013/WWAC/T2013)  
or call  
+1 919-549-8411.

