

MARCH 13-16, 2017 – HOUSTON, TEXAS

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“Measurement & Analytics” Curriculum at a glance

Be sure to check out all the Measurement & Analytics curriculum offerings. Add a workshop to your calendar today. Please note that seating in the interactive hands-on training workshops is limited and often in high demand. For 2017, a new process is being introduced. Seats for any hands-on training workshop may be reserved on the day of that workshop beginning at 7:30 AM at the **Hands-on Training Seat Reservation desk** located outside room **370A** on **Level 3** of the Convention Center.

- Links> [ABB Customer World Website](#) > [Session Catalog](#) > [Sessions by Program](#) > [Interactive Technical Training](#) > [Measurement made easy](#)
- The sessions below include direct links to the presentation to save in your calendar.

Mon, March 13, 2017

- 1:00am – 4:30pm 70501 [Hands-On: Flow measurement primer: Theory, selection and operation](#) Location: 370F
- or
- 1:00pm – 2:00pm 60101 Industrial Automation | [Innovation presentation: Introduction to the new high accuracy LMT series magnetostrictive transmitters](#) Location: 360F

Tues, March 14, 2017

- 10:00am - 11:30am 70502 [Hands-on: Valve positioner calibration: Optimize your valve control](#) Location: 370F
- 1:00pm – 4:30pm 70503 [Hands-on: Level measurement primer: Theory, selection and operation](#) Location: 370F

Wed, March 15, 2017

- 10:00am - 11:30pm 70504 [Hands-on: Introduction to instrumentation and how new digital devices help improve plant performance](#) Location: 370F

- 1:00pm – 3:15pm 70505 [Hands-on: Loop configuration: How to configure a simple control loop](#) Location: 370F
or
- 1:00pm – 2:00pm 60107 Industrial Automation | [Innovation presentation: Implementing and using smart instruments to improve plant performance](#) Location: 360F
- 3:30pm – 4:30pm 70506 [Hands-on: Use of QR codes on existing products for improved product maintenance](#)
Location: 370F

Thurs, March 16, 2017

- 10:00am – 11:30am 70507 [Hands-on: Pressure transmitter configuration: How to configure a pressure transmitter](#) Location: 370F
- 1:00pm – 4:30pm 70508 [Hands-on: Analyzer primer: Theory, selection and operation](#) Location: 370F

Abstracts for ABB Measurement & Analytics Curriculum

Mon, March 13, 2017

- **1:00am – 4:30pm 70501 Hands-On: Flow measurement primer: Theory, selection and operation** Location: 370F | This session provides one hour of introduction on theory, selection and applications, followed by two hours of hands-on experience with different flow technologies. Attendees will obtain a basic understanding of which flow technology is best for a particular application type, how that flow technology works and why it is important. Flow technology covered will include electromagnetic, vortex and swirl, variable area, Coriolis mass, thermal mass, and differential pressure (DP) flow. Greg Livelli, Kevin Green, Harald Grothey
- **1:00pm – 2:00pm 60101 Industrial Automation Innovation presentation: Introduction to the new high accuracy LMT series magnetostrictive transmitters** Location: 360F | This session will introduce ABB's new high accuracy LMT series magnetostrictive level transmitter. The LMT is the preferred measurement solution for level and interface measurement and measurement in combination with the KM26 magnetic level gauge. Unlike other technologies, the LMT can be installed as a non-wetted/nonintrusive device or as a wetted sensor. This technology dependably measures interface and level at the same time, while ignoring foam and other process conditions which adversely affect other non-contact and wetted technologies. Charles Richard

Tues, March 14, 2017

- **10:00am - 11:30am 70502 Hands-on: Valve positioner calibration: Optimize your valve control** Location: 370F | In this hands-on training, learn how to install and calibrate a digital positioner on a valve. Naas DeJager

- **1:00pm – 4:30pm 70503 Hands-on: Level measurement primer: Theory, selection and operation** Location: 370F | This session provides one hour of introduction on theory, selection and applications, followed by two hours of hands-on experience with different level technologies. Attendees will obtain a basic understanding of which level technology is best for a particular application type, how that level technology works and why it is important. Level technology covered will include laser, guided wave radar, magnetostrictive, magnetic level gauge, ultrasonic, level switches, and vibrating fork. Charles Richard / Nicolas Ho

Wed, March 15, 2017

- **10:00am – 11:30pm 70504 Hands-on: Introduction to instrumentation and how new digital devices help improve plant performance** Location: 370F | This hands-on session introduces different types of instrumentation found in a typical plant and how new digital technology built into the devices helps improve plant performance. Instrumentation featured will include flowmeters, pressure transmitters and sensors, temperature transmitters and sensors, level measurement, valve positioners, actuators, recorders, and indicators. Greg Livelli
- **1:00pm – 3:15pm 70505 Hands-on: Loop configuration: How to configure a simple control loop** Location: 370F | In this hands-on training session, attendees will learn how to configure a single loop control using a controller and measurement device. Martin Binney / Gary Freemer
- **1:00pm – 2:00pm 60107 Industrial Automation Innovation presentation: Implementing and using smart instruments to improve plant performance** Location: 360F | Over the past 20 years, the growth of smart instruments has accelerated and continues to provide users with greater measurement accuracy, useful diagnostics, reduced control variability and better equipment reliability. Smart instruments provide visibility to improve asset optimization and loop control functions. The advances in smart instruments will result in a truly intelligent plant that will lead to higher profitability. Greg Livelli / Kevin Green
- **3:30pm – 4:30pm 70506 Hands-on: Use of QR codes on existing products for improved product maintenance** Location: 370F | This session will provide a live demonstration showing how QR codes can be implemented in ABB continuous gas analyzer products and can be used to accelerate troubleshooting and fault diagnosis. Marjus Seubert

Thurs, March 16, 2017

- **10:00am – 11:30am 70507 Hands-on: Pressure transmitter configuration: How to configure a pressure transmitter** Location: 370F | This hands-on session will cover basic pressure transmitter set up. The target audience would be system integrators, epic installers and plant service/maintenance personnel. Doug Greaves
 - **1:00pm – 4:30pm 70508 Hands-on: Analyzer primer: Theory, selection and operation** Location: 370F | This session provides one hour of introduction on theory, selection and applications, followed by two hours of hands-on experience with different analyzer technologies. Attendees will obtain a basic understanding of common types of liquid and gas analyzers found in industrial applications and why that analyzer technology is important. Analyzer technology covered will include combustible gas, online liquid and gas, and continuous water analysis. Nik Siwek / Bruce Herman / Steve Lakey /
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