



Standards
Certification
Education & Training
Publishing
Conferences & Exhibits

Master
your
skills

High-intensity Automation and Control Training Camp is coming near you!

Tempe
ARIZONA



During four consecutive weeks in March 2016, ISA's world-renowned subject-matter experts will gather in one location to provide world-class technician, automation engineering, and safety courses with these outstanding benefits:

- Highly condensed, rigorous instruction that accelerates learning and skill refinement while saving time and expenses
- The opportunity to take multiple ISA training courses at one location, and at a discounted rate*
- CEUs and PDHs for each course successfully completed.

By attending one or more of these intensive, highly practical training courses that comprise ISA Technical Training Camp, you'll attain the comprehensive, in-depth training you need to master your skills.

WEEK 1 (7–11 MARCH)
Technician Training Boot
Camp (TTBC)

WEEK 2 (14–18 MARCH)
Automation Engineering
Survival Training (AEST)

WEEK 3 (21–25 MARCH)
Safety Instrumented
Systems—Design, Analysis,
and Justification (EC50)

WEEK 4 (28–31 MARCH)
Part 1: **Advanced Safety
Integrity Level (SIL)
Selection (EC52)** and
Part 2: **Advanced Design and
SIL Verification (EC54)**

Setting the Standard for Automation™

Skills to master with our experienced instructors

Technician Training Boot Camp (TTBC)

Length: 4.5 days **CEUs/PDHs:** 3.6/36

Instructor: Manuel Garza

You Will Be Able To:

- Describe the operation of a pneumatic differential pressure transmitters
- Calibrate a pneumatic d/p transmitter
- Describe the operation of the 4-20 ma current loop
- Perform voltage and current measurements in a 4-20 ma current loop
- Calibrate an electronic d/p transmitter
- Configure a digital transmitter
- And more

Automation Engineering Survival Training (AEST)

Length: 4.5 days **CEUs/PDHs:** 3.6/36

Instructor: Scott Sommer, PE, CAP

You Will Be Able To:

- Discuss the role of measurement and control in industrial processes
- Size valves for any flow condition likely to be found in a process plant
- Design a graphical hierarchy for navigation
- Define the different Ethernet varieties and which are best for industry
- Interpret the best practice methodology for automation project execution
- And More

Safety Instrumented Systems—Design, Analysis, and Justification (EC50)

Length: 4.5 days **CEUs/PDHs:** 3.2/32

Instructor: Paul Gruhn

You Will Be Able To:

- Safety Instrumented Systems—Design, Analysis, and Justification (EC50)
- Differentiate between process control and safety control
- Implement the ISA84 (IEC 61511) standard
- Evaluate process risk levels
- Select Safety Integrity Levels (SILs) for Safety Instrumented Functions (SIFs) using a variety of techniques
- Analyze the performance of different logic system technologies
- And More

Part 1:

Advanced Safety Integrity Level (SIL) Selection (EC52)

Length: 2 days **CEUs/PDHs:** 1.4/14

Instructor: Ed Marszal

You Will Be Able To:

- Develop and implement different SIL selection techniques
- Determine the appropriate level of safety system performance
- And more

Part 2:

Advanced Design and SIL Verification (EC54)

Length: 2 days **CEUs/PDHs:** 1.4/14

Instructor: Ed Marszal

You Will Be Able To:

- Analyze system technology and configuration to see if it meets SIL requirements
- Determine safety or upgrade of existing systems and whether proposed systems meet performance requirements
- Determine optimum manual system test interval
- And more

Space is Limited Register Today!

P.I.P.E. Training Center
125 S. 52nd Street
Tempe, Arizona 85281
www.isa.org/AZMAR16
Email: info@isa.org
Call: +1 919-549-8411