

# ISA Training Instructor-Led Course Schedule

## June–October 2018

For more information or to register, visit [www.isa.org/Training](http://www.isa.org/Training) or call +1 919-549-8411.

Course schedule and pricing are subject to change.



| Course Title  | Course # | June                       | July          | August        | September     | October       |
|---|----------|----------------------------|---------------|---------------|---------------|---------------|
| <b>Fundamental Skills</b>   |          |                            |               |               |               |               |
| <u>Introduction to Industrial Processes, Measurement and Control</u>    | FG07     | 18–22(NC)<br>25–29<br>(MN) | 9–13<br>(NC)  | 6–10<br>(IL)  | 17-21<br>(NC) |               |
| <b>Technical Skills</b>   |          |                            |               |               |               |               |
| <b>INSTRUMENTATION MAINTENANCE</b>                                      |          |                            |               |               |               |               |
| <u>Installing, Calibrating &amp; Maintaining Electronic Instruments</u> | TI25     | 25–29<br>(CA)              | 25–29<br>(NC) | 6–10<br>(CA)  |               | 15–19<br>(PA) |
| <u>Advanced Operation of Digital (Smart) Transmitters</u>               | TS17     |                            | 16–20<br>(NC) |               |               |               |
| <u>Control Valve Mechanics and Operations from Analog to Digital</u>    | TS18     |                            |               |               |               |               |
| <b>INDUSTRIAL COMMUNICATIONS</b>  |          |                            |               |               |               |               |
| <u>IT Survival Basics for I&amp;C Personnel (Formerly ISA TS14)</u>     | TS04     |                            | 9–13<br>(DE)  |               | 10–14<br>(TX) |               |
| <u>Industrial Data Communications Systems</u>                           | TS06     |                            | 16–20<br>(DE) |               |               |               |
| <u>Industrial Networking &amp; Security</u>                             | TS12     |                            | 23–27<br>(DE) |               |               |               |
| <b>CONTROL SYSTEMS</b>  |          |                            |               |               |               |               |
| <u>Tuning Control Loops</u>   | TC05     |                            |               | 13–15<br>(CA) |               | 15–17<br>(DE) |
| <u>Troubleshooting Instrumentation and Control Systems</u>              | TC10     |                            |               | 16–17<br>(CA) |               | 18–19<br>(DE) |

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|---|-------------|-------------|---------------|---------------|---------------|-------------|
| <b>ASSEST MANAGEMENT AND ENTERPRISE INTEGRATION</b>                             |             |             |               |               |               |             |
| <u>Calibration Asset Management and Data Aquision Practices</u>                 | <u>EI42</u> |             |               |               |               |             |
| <b>BUILDING AUTOMATION</b>  |             |             |               |               |               |             |
| <u>Introduction to Building Automation Systems</u>                              | <u>EA15</u> | 5–7<br>(DE) |               |               |               |             |
| <b>CONTROL SYSTEMS</b>  |             |             |               |               |               |             |
| <u>Designing and Tuning Feedback and Advanced Regulatory Control Strategies</u> | <u>EC05</u> |             |               |               |               |             |
| <b>CYBERSECURITY</b>  |             |             |               |               |               |             |
| <u>Using the ISA/IEC 62443 Standards to Secure Your Control Systems</u>         | <u>IC32</u> |             | 30–31<br>(DE) | 6–7<br>(NC)   | 12–13<br>(CA) | 1–2<br>(TX) |
| <u>Assessing the Cybersecurity of New or Existing IACS Systems</u>              | <u>IC33</u> |             |               | 1–3<br>(DE)   | 18–20<br>(CA) | 3–5<br>(TX) |
| <u>IACS Cybersecurity Design &amp; Implementation</u>                           | <u>IC34</u> |             |               | 6–8<br>(NC)   | 25–27<br>(CA) |             |
| <u>IACS Cybersecurity Operations &amp; Maintenance</u>                          | <u>IC37</u> |             | 9–11<br>(PA)  | 13–15<br>(NC) |               | 2–4<br>(CA) |
| <b>MEASUREMENT AND CONTROL</b>  |             |             |               |               |               |             |
| <u>Industrial Pressure, Level, and Density Measurement Engineering</u>          | <u>EI05</u> | 4–6<br>(NC) |               | 13–14<br>(NC) |               |             |
| <u>Industrial Flow Measurement Engineering</u>                                  | <u>EI10</u> | 6–8<br>(NC) |               | 15–17<br>(NC) |               |             |

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| <b>PLANT MAINTENANCE</b>   |                      |               |               |               |               |               |
| <u>Applying Motor Controls and Drives</u>  | <u>SP15</u>          |               |               |               |               | 22–25<br>(CA) |
| <b>SAFETY</b>  |                      |               |               |               |               |               |
| <u>Safety Instrumented Systems—Design, Analysis &amp; Justification</u>                    | <u>EC50</u>          | 18–22<br>(TX) | 9–13<br>(IL)  | 20–24<br>(CO) |               | 15–19<br>(TX) |
| <u>Advanced Safety Integrity Level (SIL) Selection</u>                                     | <u>EC52</u>          | 25–26<br>(TX) | 16–17<br>(IL) | 27–28<br>(CO) | 17–18<br>(DE) | 22–23<br>(TX) |
| <u>Advanced Design &amp; SIL Verification</u>  | <u>EC54</u>          | 27–28<br>(TX) | 18–19<br>(IL) | 29–30<br>(CO) | 19–20<br>(DE) | 24–25<br>(TX) |
| <u>Fire &amp; Gas System Engineering: Performance-Based Methods for Process Facilities</u> | <u>EC56P</u>         |               |               | 28–30<br>(TX) |               |               |
| <u>Applying Instrumentation in Hazardous (Classified) Locations</u>                        | <u>ES10</u>          |               |               | 1–2<br>(IL)   |               |               |
| <u>Boiler Control Systems Engineering</u>  | <u>ES15</u>          |               |               |               |               | 1–3<br>(NC)   |
| <u>Burner Management Systems Engineering Using NFPA Code 85 and ANSI/ISA77 Standards</u>   | <u>ES16</u>          |               |               |               |               | 4–5<br>(NC)   |
| <u>Management of Alarm Systems</u>   | <u>IC39V (VILT*)</u> |               |               |               |               |               |

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ISA's extensive instructor-led curriculum is organized in three training paths designed to cover the body of knowledge required for technicians and automation professionals. Those training paths, outlined above, are the Fundamental Skills Path, the Automation Professional Skills Path, and the Technical Skills Path. Depending on your career and professional development needs, you may opt to take all the courses in a path or just a few from a select area.



ISA is accredited by the International Association for Continuing Education and Training (IACET). ISA complies with the ANSI/IACET Standard, which is recognized internationally as a standard of excellence in instructional practices. As a result of this accreditation, ISA is authorized to issue the IACET CEU.

### US Training Locations

ISA has training locations in the following states: NC, CA, CO, DE, FL, IL, OH, MN, PA, TX, and WI.

\*VILT stands for Virtual Instructor-Led Training.

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| <b>Certification and Licensure Review</b>   |             |               |              |                            |           |               |
| <u>Certified Automation Professional® (CAP®) Exam Review Course</u>               | <u>EC00</u> |               |              | 27–29<br>(NC)              |           |               |
| <u>Control Systems Engineering PE Exam Review Course</u>                          | <u>EN00</u> |               | 9–11<br>(PA) | 9–11<br>(TX) 13–15<br>(NC) |           | 8–10<br>(CA)  |
| <u>Certified Control Systems Technician® (CCST®) Level I Review Course</u>        | <u>TS00</u> |               |              | 6–10<br>(PA)               |           | 23–27<br>(NC) |
| <u>Certified Control Systems Technician® (CCST®) Level II Exam Review Course</u>  | <u>TS02</u> | 18–21<br>(PA) | 9–12<br>(PA) |                            |           |               |
| <u>Certified Control Systems Technician® (CCST®) Level III Exam Review Course</u> | <u>TS03</u> |               |              | 13–17<br>(IL)              |           | 1–4<br>(CA)   |

| <b>Special Training Events</b>   |               |               |              |               |               |              |
|--|---------------|---------------|--------------|---------------|---------------|--------------|
| <u>Automation Engineering Survival Training</u>  | <u>AEST</u>   | 11–15<br>(TX) |              | 13–17<br>(CO) |               | 8–12<br>(TX) |
| <u>Automation Engineering Survival Training: Integrator Version</u>                    | <u>AESTIV</u> |               | 9–13<br>(TX) |               | 10–14<br>(PA) |              |
| <u>Technician Training Boot Camp</u>   | <u>TTBC</u>   | 4–8<br>(TX)   |              | 6–10<br>(CO)  |               | 1–5<br>(TX)  |
| <u>Process Automation Boot Camp for Non-Maintenance Personnel</u>                      | <u>PABC</u>   |               |              | 13–17<br>(PA) |               |              |
| <u>Tactics for Advanced Troubleshooting Boot Camp</u>                                  | <u>TATC</u>   |               |              | 20–24<br>(IL) |               |              |
| <u>Extreme Instrumentality: Electrical to Instrumentation Cross Training Boot Camp</u> | <u>XTBC</u>   |               |              |               | 24–28<br>(NC) |              |