



# 2019 ISA TRAINING SCHEDULE

Werner Electric Supply offers the most current, comprehensive training courses addressing the latest industrial technologies. Choose from a variety of International Society of Automation technical topics and learn from our experts in automation, process control, installation, commissioning and safety.

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## IC32 - Using the ISA/IEC 62443 Standards to Secure Your Control Systems

Length: 2 Days | Member Price: \$1,640 | Non-Member Price: \$2,000 | 1.4 CEUs | Lunch Provided

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 cyber attacks that have wreaked 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.

### Upcoming Dates

June 10-11, 2019	8:00 a.m. - 4:00 p.m.	Werner Electric Supply, Appleton
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Click [here](#) to register. For questions, please contact [Rodney Howard - P.E., CAP.](#)

## TTBC - Technician Training Boot Camp

Length: 4.5 Days | Member Price: \$3,390 | Non-Member: \$4,240 | 3.6 CEUs | 36 PDHs | Lunch Provided

ISA Technician Training Boot Camp combines a unique technical training course with minimum lecture and maximum hands-on experience. Over 75% of your time will be spent on equipment labs! This week of intensive training will cover a broad range of technical topics needed to get the job done right. Starting with basic instrumentation fundamentals and ending with the advanced and ultimate in smart technology, this comprehensive program will serve as a vital building block to your professional development and skills enhancement efforts. This course also serves as a solid introduction to other ISA courses that will help you advance your automation and control career.

### Upcoming Dates

July 15-19, 2019	8:00 a.m. - 5:00 p.m. (M-TH);	Werner Electric Supply, Appleton
	8:00 a.m. - 12:00 p.m. (F)	

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# 2019 ISA TRAINING SCHEDULE



## TC05 - Tuning Control Loops

Length: 3 Days | Member Price: \$1,680 | Non-Member Price: \$2,105 | 2.1 CEUs | Lunch Provided

**Take courses TC05 and TC10 together and save!** The TC05 course is directed to anyone who would like to gain a better understanding of how to tune control loops-whether they have tuned loops but would like to become more proficient or they have never tuned a loop before. Registrants are expected to have a basic understanding of instrumentation and controls (either by working experience or taking fundamental courses such as ISA's FG07: Introduction to Industrial Processes, Measurement and Control) as this course does not cover that material.

### Upcoming Dates

August 12-14, 2019	8:00 a.m. - 4:00 p.m.	Werner Electric Supply, Appleton
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Click [here](#) to register. For questions, please contact [Rodney Howard - P.E., CAP.](#)

## TC10 - Troubleshooting Instrumentation and Control Systems

Length: 2 Days | Member Price: \$1,680 | Non-Member Price: \$2,105 | 1.4 CEUs | Lunch Provided

**Take courses TC05 and TC10 together and save!** The TC10 course presents a systematic approach to troubleshooting and start-up of single- and multi-loop control loops. You'll see how pressure, level, flow, and temperature loops operate to maintain good process control systems. Knowledge of instrumentation and control is assumed.

### Upcoming Dates

August 15-16, 2019	8:00 a.m. - 4:00 p.m.	Werner Electric Supply, Appleton
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Click [here](#) to register. For questions, please contact [Rodney Howard - P.E., CAP.](#)

## EN00 - Control Systems Engineering PE Exam Review Course

Length: 3 Days | Member Price: \$1,680 | Non-Member Price: \$2,105 | 2.1 CEUs | Lunch Provided

This course reviews the knowledge and skills areas that are included on the Control Systems Engineer (CSE) Professional Engineer (PE) examination produced by the National Council of Examiners for Engineering and Surveying (NCEES) and administered by US state professional license boards each October. The intent of the class is to prepare an engineer with four or more years of experience to take the exam by providing instruction in the broad range of technical areas that will be tested. The content is based on the CSE Exam Specification that went into effect in October 2011.

### Upcoming Dates

September 16-18, 2019	8:00 a.m. - 4:00 p.m.	Werner Electric Supply, Appleton
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# 2019 ISA TRAINING SCHEDULE



## TS06 - Industrial Data Communication Systems

Length: 5 Days | Member Price: \$3,080 | Non-Member Price: \$3,855 | 3.5 CEUs | Lunch Provided

Starting from the basics, this course gives you the tools to design and maintain industrial communications systems on your plant floor. You'll learn the underlying principles behind today's industrial communications systems, including Modbus, Data Highway Plus, Ethernet, and TCP/IP. Real-life examples and case histories provide insight into the facts behind control networks and how to apply and maintain them effectively in your plant.

### Upcoming Dates

October 7-11, 2019	8:00 a.m. - 5:00 p.m. (M-TH); 8:00 a.m. - 12:00 p.m. (F)	Werner Electric Supply, Appleton
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Click [here](#) to register. For questions, please contact [Rodney Howard - P.E., CAP.](#)

## TS12 - Industrial Networking and Security

Length: 5 Days | Member Price: \$3,080 | Non-Member Price: \$3,855 | 3.5 CEUs | Lunch Provided

In this course, you will learn about the latest developments in networking, including practical tips on designing, implementing and testing TCP/IP-based networks and how to apply them securely and reliably in an Industrial environment. You will discuss the functions and purposes of the elements used to create and protect an industrial network including switches, routers, firewalls, and intrusion detection/prevention systems.

### Upcoming Dates

October 14-19, 2019	8:00 a.m. - 4:00 p.m.	Werner Electric Supply, Appleton
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Click [here](#) to register. For questions, please contact [Rodney Howard - P.E., CAP.](#)

## FG07 - Introduction to Industrial Processes, Measurement and Control

Length: 4.5 Days | Member Price: \$3,080 | Non-Member Price: \$3,855 | 3.2 CEUs | Lunch Provided

This popular course combines lecture and hands-on labs to provide an overview of industrial measurement and control. Technicians, engineers, and managers are provided with a foundation for communication with other control system professionals. Serves as a solid fundamental course for introduction to other ISA courses.

### Upcoming Dates

November 11-15, 2019	8:00 a.m. - 4:00 p.m. (M-TH); 8:00 a.m. - 12:00 p.m. (F)	Werner Electric Supply, Appleton
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