



## Technical Training Courses

- BICSI Certification
- Belden Certification
- ETAI Certification
- Electrical
- Safety
- Serving to Learn
- Troubleshooting
- Computer Hardware/Interfacing

## BICSI Certifications

### BICSI IN101 Installer Level I

**Course # 150-411**

- Successfully terminate various types of copper connectors.
- Properly explain the importance of safety and professionalism toward optimal job performance.
- Discuss pathways, spaces, bonding and grounding and fire stopping.
- Make decisions based on applicable codes, standards, and best practices.
- Choose the correct tool or methodology for specific tasks.

**Hours:** 40 (+ 2 Test)

**CEC's:** BICSI= 35 , State=32

### BICSI IN225 Copper Installer Level II

**Course # 150-412**

- Successfully interpret drawings, plans, and specifications.
- Properly test and troubleshoot copper installations.
- Discuss media selection and implications for implementation on the network.
- Make recommendations based on applicable codes, standards, and best practices.
- Interpret the job plan and scope of work as well as perform retrofits and upgrades for existing infrastructure.

**Hours:** 40 (+ 2 Test)

**CEC's:** BICSI= 35 , State=32

### BICSI IN250 Fiber Installer Level II

**Course # 150-410**

- Successfully interpret drawings, plans, and specifications.
- Properly test and troubleshoot optical fiber installations.
- Discuss media selection and implications for implementation on the network.
- Make recommendations based on applicable codes, standards, and best practices.
- Interpret the job plan and scope of work as well as perform retrofits and upgrades for existing infrastructure.

**Hours:** 40 (+ 2 Test)

**CEC's:** BICSI= 35 , State=32



## BICSI TE350 Technician A

**Course # 150-417A**

- In *TE350 A* join an elite group of installers who possess this high level of skills training. Take your installation performance to the next level through the study of specialized systems and advanced copper and optical fiber structured cabling systems. *TE350 A* is the first part of a two part 40-hour course that provides the necessary skill set of a structured cabling systems technician. An advanced study of copper splicing, testing and troubleshooting will open this course. A significant amount of course time will then be spent on the splicing, testing and troubleshooting of optical fiber cable.
- The student must also take *TE350 B* in order to prepare for and take the BICSI hands-on and written exams. The two and one-half hour written test is taken after the second class (BICSI TE350 B) ends.

## BICSI TE350 Technician B

**Course # 150-417B**

In *TE350 B*: join an elite group of installers who possess this high level of skills training. Take your installation performance to the next level through the study of specialized systems and advanced copper and optical fiber structured cabling systems. *TE350 B* is the second part of a two part 40-hour course that provides the necessary skill set of a structured cabling systems technician. The major topics covered in this class will be field coordination, including site surveys, blueprint reading, network infrastructure and project management. This course will also cover some special topics within ITS cabling installation. The student must also have taken BICSI *TE350 A* in order to prepare for and take the BICSI hands-on and written exams. The two and one-half hour written test is taken after the class ends.

**Hours:** 20 each (40/ **TE350 A & B**)(+ 2.5 Test)

**CEC's:** BICSI= 35 , State=32 (TE350 A&B)



## Telecom Fire Stopping

**Course # 605-197**

The fire stopping class teaches the importance of fire stopping and fire safety practices and procedures. The course teaches basic concepts of fire stopping and cabling installation. Students will have the opportunity to earn **two** fire stopping certifications. This class is designed to prepare students for the *Specified Technologies Fire Stop Level I Certification* and the *Unique Fire Stop Certification* (both tests administered in-class). It also helps to prepare students for the fire stopping portion of all BICSI Installer Certification exams. The skills, abilities and knowledge, are beneficial for a person working or seeking employment in the electrical and telecommunications cabling fields. *Telecom Fire Stopping* is presented in a four hour per week, 9-week, and 36-hour course sets the foundation of fire stopping system installation.

**Hours:** 36

**Credits:** 2

**CEC's:** BICSI= TBD, BICSI STI State=32



## Belden Certifications

### **Belden P101 HDBaseT for network and AV**

**Course # 150-420**

The P101 HDB course provides training on the different standards, specifications and technologies for digital audio-video transmission, with a focus on HDBaseT transmissions over recommended networking copper systems. It also provides participants the opportunity to review, install, test and troubleshoot the various copper systems.

**Hours:** 8 (+1 TA) *Presented in a four hour per week, 2-week, or eight hour per day, 1-day format.*

**CEC's:** BICSI= 7, State=7

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### **Belden IBDN 303 Design and Concept**

**Course # 150-407**

The class is designed for Structured Cabling Installers, Architects, Designers, and Networking Consultants to gain the ability to design the IBDN Structured Cabling System. Also learn about standards and planning procedures related to the deployment of structured cabling systems.

**Hours:** 16 (+1 TA) *Presented in a eight hour per week, 2-week or four hour per week, 4-week or eight hour per day, 2-day format.*

**CEC's:** BICSI= 14, State=14

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### **Belden IBDN 726 Copper**

**Course # 150-406**

The class is designed for Structured Cabling Installers to gain the ability to install Belden copper structured cabling systems. IBDN 726 Copper class is

**Hours:** 8 (+1 TA) *Presented in a four hour per week, 2-week, or eight hour per day, 1-day format.*

**CEC's:** BICSI= 7, State=7

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### **Belden IBDN 746 Fiber**

**Course # 150-405**

The class is designed for Structured Cabling Installers to gain an understanding of the principles behind optical fiber cabling media. Also gain the ability to install Belden Optical Fiber components and solutions.

**Hours:** 8 (+1 TA) *Presented in a four hour per week, 2-week, or eight hour per day, 1-day format.*

**CEC's:** BICSI= 7, State=7

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### **Belden IBDN749 A Touch of Brilliance**

**Course # 150-421**

Attendees will learn correct termination procedures for the Brilliance line of fiber optic connectors. Students will also gain a working knowledge of proper tester set up, acceptance testing and troubleshooting techniques.

**Hours:** 8 (+1 TA) *Presented in a four hour per week, 2-week, or eight hour per day, 1-day format.*

**CEC's:** BICSI= 7, State=7

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### **Belden P101 SEC Basics of security Installer**

**Course # 150-422**

The purpose of this course is to provide the participant the required knowledge to install security key components over an IP infrastructure. The student will develop their hands on skills and get a good comprehension of security installation.

**Hours:** 8 (+1 TA) *Presented in a four hour per week, 2-week, or eight hour per day, 1-day format.*

**CEC's:** BICSI= 7, State=7



## ETAI Certifications

### ETAI Certified Electronics Technician: *Prep*

**Course # 605 - 447**



ETAI CET Preparation class helps students prepare to take the ETAI Associate Certified Electronics Technician Certification test. ETA's world-class CETa certification professionally acknowledges your ability to work as an electronic technician in today's workplace. The CETa certification is designed for technicians who have less than two years' experience or trade school training for electronics technicians. All Certified Electronics Technicians must pass the Associate exam before they can qualify to sit for the full Journeyman certification. The Associate certification is only good for two years. Topics covered include: electrical theory, test equipment and measurements, mathematics and formulas,

electronic circuits: Series and Parallel, interfacing of electronics products and more. A significant amount of time will be spent reading the study guide before the class starts.

**Hours:** 8 (+2 Test) *Two hour written test will be scheduled and taken after the end of the class.*

## Electrical

### Introduction to Electronic Soldering

**Course # 605-415D**

This course will teach proper soldering techniques for conventional and surface mount soldering. The class will place an emphasis on safety procedures, best practices, and practical applications. It will offer some broad coverage in many areas, with hands-on practice the student will build several kits and have the work examined and critiqued by the instructor.

**Hours:** 4

### Basic Electrical for the Non-Electrician

**Course # 605-429H**

This course will provide an Introduction and overview of basic electrical systems from the perspective of home wiring. There will be discussion on maintaining/Installing AC systems, AC system operation and trouble shooting. We will also examine diagrams, symbols, and codes.

**Hours:** 4 *Can be delivered in one four hour or two, two-hour days.*

**CECs:** BICSI = TBD



## Safety

### Basic Hand Tool Safety (Snap-on)

Learn how to select and use tools properly. Develop an understanding of various hand tools and their specific uses with safety in mind.

**Hours:** 3

**Course # 605-451**



### Basic Electrical Tool Safety (Snap-on)

Learn basic electrical safety and how to select and use electrical tools properly. Develop an understanding of various electrical tools and their specific uses with safety in mind.

Note: Can be delivered in two to three hours.

**Hours:** 3

**Course # 605-450**



### Ladder Safety

By the end of this course, you will be able to: select the right ladder for your job, properly inspect your ladder, handle and transport your ladder to prevent damage, and know the right ways to use your ladder safely.

**Hours:** 2

### Workplace Safety A - MSSC Safety

This course will introduce the students to industrial safety practices and equipment. It will prepare the student for the Manufacturing Skills standards Council (MSSC) Safety exam. The MSSC offers certificate(s) and/or certification for Production Workers (Certified Production Technician or CPT). The Safety Exam is one of the four required exams to earn a CPT.

**Hours:** 18 (+2 Test)

**Credits:** 1

**CECs:** BICSI = TBD

**Course # 625-125**



## Serving to Learn

### Serving to Learn Locally

**Course # 890-105**

Through meaningful volunteer service, students will apply principles of professionalism, team work, and critical thinking, as well as their chosen career's technical knowledge, attitude and skill. Students will collaborate with the community, including (but not limited to) the identification of a service need, planning the service, performance of the service, and/or evaluation of the result. Through reflection and dissemination, students will integrate an increased sensitivity to the diversity of the community, global connectivity, civic engagement and their own professional career path.

**Hours:** 36

**Credits:** 2

### Serving to Learn Globally

**Course # 890-106**

Through immersion in a global community, students will collaborate to identify a need, plan a service, perform the service and/or evaluate the result. They will apply principles of professionalism, team work, and critical thinking, as well as their chosen career's technical knowledge, attitude and skill. Through reflection and dissemination, students will integrate an increased sensitivity to the diversity of the community, global connectivity, civic engagement and their own professional career path.



**Hours:** 36

**Credits:** 2

## Troubleshooting

### Training Employees to Perform Technical Tasks

**Course # 150-418B**

Learn how to train your own employees to learn new technical skills and advance within your company. Prepare them to learn and help to get their buy-in to grow and perform more technical tasks.

**Hours:** 4

**Credits:** ACE Workshop

### Introduction to Troubleshooting

**Course # 605-446**

Learn the basic and logical steps to troubleshoot any technical problem. The class will discuss the process of troubleshooting, look at useful tools and troubleshooting aids, and work on a variety of troubleshooting problems.

**Hours:** 4 (*Can be delivered in one four hour or two two-hour meetings.*)

**Credits:** ACE Workshop

## Computer Hardware/Interfacing

### Computer Hardware Architectures

**Course # 605-181**

This course will introduce the hardware architecture of the personal computer platform.

Topics covered are motherboard, BIOS systems, extension buses, serial ports, parallel ports, and Universal Serial Bus, ports, hardware upgrade procedures, and troubleshooting hardware using electronic test equipment. This class prepares you for the CompTIA A+ 220-801 Hardware Exam.

**Hours:** 72\*

**Credits:** 3

**CECs:** BICSI = TBD

### Computer Interfacing Techniques

**Course # 605-182**

This course will examine different hardware interfacing techniques used in the personal computer.

Topics covered are programmable, plug-and-play, strobe, infrared, local bus to ISA, local bus to serial devices, local bus to parallel devices and USB. This class prepares you for the CompTIA A+ 220-802 Software Exam.

**Hours:** 72\*

**Credits:** 3

**CECs:** BICSI = TBD

**\*Note:** *When delivered in the semester format it is 72 hours. We may be able to offer it in a 40 hour one-week format with previous online work and reading before the class. The test would be taken after the class.*



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