



Technician Training Course Catalog

Basic Level Courses - Event Technology 101

ET101 Event Technology
5 Credit Hours
English, Español, Deutsch, français

Event Technology is an integral part of the services offered by your organization. The role of the Event Technology employee in providing quality support is critical. This course will enable you to deliver a consistent product and execute successful events.

Intermediate courses - Audio

A201 Audio Theory
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español, Deutsch, français

This course will help you become more familiar with the basic terminology and technology that make up the Audio Chain. With the information presented in this course, you will have the basic knowledge necessary to handle a simple audio setup, while building a foundation for more complex audio events.

A202 House Sound
2 Credit Hours (CTS,CTS-I)
English, Español, Deutsch

This course will provide you with a clear understanding of how the house sound systems work and how to use them to their maximum performance capabilities. It will give you the confidence to handle the operation of house sound systems and troubleshooting of problems you may encounter.

A203 Microphone Technology
2 Credit Hours
English, Español

To intelligently choose the correct microphone, the application and expected result must be determined. Factors affecting microphone choice are examined and explained to avoid potential pitfalls and simplify the setup process.

A204 Microphone Operations
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español

Learning to set the minimum number of microphones will increase the quality of sound reinforcement and recording. The choice of microphones to be used and how they are placed will enable technicians to get the maximum performance from the sound system. Knowing the peripheral equipment used with microphones will simplify setups and improve performance.

A205 Wireless Microphones
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español, Deutsch

Wireless microphones are fundamental tools for any professional sound system used with the variety of presentations serviced by the event technology industry. This course will provide you with a thorough understanding of the technology, set up and operation of wireless microphones.

A206 Mono Mixers
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Deutsch

This course will help you become more familiar with the central link in the audio chain: the mixer. The manual provides tips on operation and set-up, presenting options which can be used to enhance the quality of sound reinforcement services offered.

A207 Stereo Mixers
2 Credit Hours (CTS,CTS-D,CTS-I)
English

This course will identify and explain the benefits and features of the Stereo Mixer. It will give you an understanding of how the Stereo Mixer accepts audio signals, manipulates them as needed, and how it is able to route these signals to a variety of external systems.

A208 Automatic Mixers
2 Credit Hours (CTS,CTS-D,CTS-I)
English

This course will introduce you to a valuable piece of audio gear that, in the right cases, may improve the quality of the audio over that of a standard mixer.

A209 Analog Recording Devices
2 Credit Hours (CTS,CTS-D,CTS-I)
English

An audio recording can be one of the central purposes of a presentation. An understanding of recording equipment and techniques is essential to providing the customer with quality documentation of their event. This course will cover the basics of the recording process to help technicians provide consistent service.



Technician Training Course Catalog

Intermediate courses - Audio

A210 Amplifiers
2 Credit Hours
English

This course will help you become more familiar with the final link in the sound reinforcement audio chain. Understanding the importance of proper loading and correct phasing, or polarity, are just two examples of critical information you can take away from this course.

A211 Loud Speakers
2 Credit Hours (CTS,CTS-D,CTS-I)
English

This course will provide you with a clear understanding of how loudspeakers affect all configurations of sound reinforcement equipment. Everything from rigged sound systems capable of filling a ballroom to a basic system used in small meeting rooms will be addressed in this course.

A212 Audio Accessories
2 Credit Hours (CTS,CTS-D,CTS-I)
English

Audio technology covers a broad range of equipment and procedures. This course will explain the interconnection of microphones, mixers, processors, and amplifiers as well as accessories available to you. You will gain more confidence in setting up different audio systems.

A213 Basic Audio Troubleshooting
2 Credit Hours (CTS,CTS-D,CTS-I)
English

You will learn how sound systems are subject to the effects of the physical environment and what you can do to handle the challenges of room acoustics and electronic interference. You will be able to identify and solve problems that arise, thus giving you more confidence, and ultimately, better service to your guests.

Intermediate courses - Computer Interfacing

CI201 Computer Interfacing Theory
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español, Deutsch, français

Learning how to handle the newer processors, video boards and rapidly changing technology that is central to meetings becomes more important every day. Today's technology demands are more complex than ever and, in order to service them properly, you need to be also. This course will help raise your level of confidence in handling computer interfacing challenges.

Intermediate courses - Computers

C201 Basics of Computers
2 Credit Hours
English, Deutsch, Español, français

This course introduces students to the world of computers. It provides an overview of personal computers and how they operate. It explores the various peripherals used with personal computers, the functions of memory, and the various types of drives. Computer skills are essential in today's presentation market. The basics of computers and how hardware and software work together are the foundation for the further study of Information Technology.

Intermediate courses - Connectivity

CN201 Basics of Connectivity
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español, Deutsch, français

Every event technician has to deal with computer technology. This is an introduction to the Internet and the basics of networking that makes the Internet possible.

Intermediate courses - Lighting

L201 Lighting Theory
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Español, Deutsch

Lighting is one of the most important, yet under-utilized ways to make a significant impact on an event. From the basics to more in-depth methods, this course covers the use of lighting and color in a room. Not only will this improve the way an event looks and feels, it can also make a positive impact on your sales.



Technician Training Course Catalog

Intermediate courses - Lighting

L202 Basic Lighting Technology
2 Credit Hours (CTS,CTS-D,CTS-I)
English

Lighting affects the look and feel of an event. With a general knowledge of how to set and operate basic lighting equipment, technicians can provide an environment that is more effective for presentations and enhances the impression that they create. Virtually any event can benefit from the addition of lighting.

L203 Decorative Lighting Techniques
2 Credit Hours (CTS,CTS-D,CTS-I)
English

Decorative lighting is a largely untapped resource that can personalize your client's experience while adding incremental revenue. This course will explain to you how to enhance the look of any room, no matter how large or small. Using the basic principles of lighting, decorative lighting will provide you an opportunity to get creative.

L204 Followspot
2 Credit Hours (CTS,CTS-D,CTS-I)
English

Properly utilized, a follow spotlight can add a dimension that no other lighting instrument can offer. Follow spots highlight the elements of a program and provide visual interest. By mastering Follow Spot operations, an ET professional can turn a meeting into a special event.

Intermediate courses - Power

P201 Basic AC Power
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Deutsch, Español

The quality and quantity of available power is critical to the efficient and safe operation of audio visual systems. A basic knowledge of how electricity works is critical for every event technician. The fundamentals you should understand before plugging anything into an outlet is a must.

Intermediate courses - Telephony

T201 Telephony Theory
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Deutsch, Español, français

Telephone systems, used in conjunction with personal computers, have become a common component of presentations. A basic knowledge of telephones is a must for anyone involved in these types of setups. This course provides an understanding of how separate components work together to make a successful connection.

Intermediate courses - Video

V201 Video Theory
2 Credit Hours (CTS,CTS-D,CTS-I)
English, Deutsch, Español

Despite its universal appeal and proven effectiveness for delivering information, the technology of video display does not follow a set standard. Innovations keep pushing the industry in new directions, and improved equipment continues to emerge. Video display is an extremely popular presentation tool, and in order to keep up with the latest developments it is critical to have a solid foundation in the basics.

V207 Data Display Systems
2 Credit Hours (CTS,CTS-D,CTS-I)
English

This course covers the basic information concerning computer display technology. Gain a better understanding of how display technology works, when to use specific types of displays, and where to use these devices to lend the greatest impact to presentations.

V208 Fundamentals of HDTV
2 Credit Hours (CTS,CTS-D,CTS-I)
English

This course provides an introduction to HDTV and cuts through the marketing hype which clouds the technology. HD has become a standard for video broadcasting and recording. An understanding of this technology is essential for every event technician who works with video.



Technician Training Course Catalog

Advance courses - Audio

| | |
|---|--|
| A308 Equalization 3 Credit Hours (CTS,CTS-D,CTS-I) English, Deutsch, Español | Equalizers are fundamental to any professional sound system. Event Technology working with audio will likely encounter equalizers in their work. A thorough understanding of the language, setup, and operation of equalizers is a vital to any ET professional. |
| A310 Advanced Wireless Microphones 3 Credit Hours (CTS,CTS-D,CTS-I) English, Deutsch, Español | This course delves deeper into the complexities of setting up wireless microphone systems. You will learn how radio signals are converted, transmitted, received, and converted back into sound information. This material will raise your level of confidence and help you gain experience to address wireless challenges that may arise. |
| A312 Audio Mixing Techniques 3 Credit Hours (CTS,CTS-D,CTS-I) English | For some eventss, a fully integrated sound system is the best delivery solution. Understanding how sound reinforcement technology is applied to achieve the results the client expects is crucial to success. This course will provide a background of sound system disciplines, complexities, and limitations. With a basic understanding of audio mixing, exceptional results in sound quality will be easier to master. |
| A313 Effects Processors 3 Credit Hours (CTS,CTS-D,CTS-I) English | Understanding naturally occurring acoustic phenomena provides a background for applying artificially generated effects to audio programs. Presentations and events can be enhanced with depth, emphasis, and emotion to make the experience more effective, interesting, or entertaining. This course examines reverberation, echo, and other digital effects and the processors involved in creatively altering sound. |
| A314 Signal Processors 3 Credit Hours (CTS,CTS-D,CTS-I) English | Various tools for shaping, controlling, and refining audio signals are available to knowledgeable technicians. This course provides a starting point for experimenting with audio signal processing, with the goal of improving the quality and intelligibility of the audio program. |
| A317 Monitor Systems 3 Credit Hours (CTS,CTS-D,CTS-I) English | Audio monitors are an important component of live performance events. This course provides an overview of the integration of multiple monitor systems within the main sound system, including onstage monitor systems and backstage systems. The course will provide a basic understanding of the types of monitor systems and their application for various events. |
| A318 Bench Repair Techniques 2 Credit Hours (CTS,CTS-D,CTS-I) English | Event Technology specialists should have the skills to perform preventive maintenance and basic repair of cables and connectors necessary for daily operations. Having the knowledge to perform simple maintenance and cable repairs onsite will save time and reduce costs. |
| A319 Assisted Listening 3 Credit Hours (CTS,CTS-D,CTS-I) English | Per the Americans with Disabilities Act, event venues are required to provide assistive listening devices to any attendees suffering from hearing impairment. As the world population moves toward a growing percentage of elderly citizens, the need for Assisted Listening Systems (ALS) will increase. It is important to understand how assistive listening systems operate. |
| A320 Simultaneous Interpretation 3 Credit Hours (CTS,CTS-D,CTS-I) English | The use of a simultaneous interpretation system affects more than a meeting's technical requirements. Both the room's layout and the flow of events may need to be altered, and careful pre-planning is essential. Organizations that understand the logistics involved with SIS can consistently deliver smooth service to international meetings in need of interpretation. |



Technician Training Course Catalog

Advance courses - Computers

C326 PowerPoint 2003 Advanced
4 Credit Hours
English

This is the final of a three part course introducing the event technician to the Microsoft PowerPoint 2003. This course provides an overview of the collaboration and multi-user support within the application and explains how to use the environment to support your presentation. An understanding of this application from Microsoft is a critical skill set you will want to add to your professional skills and a valuable commodity you will want to offer your clients.

Advance courses - Connectivity

CN301 Wireless Security
3 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician has to deal with some form of computer technology. Computers and the Internet have advanced very quickly over the past decade to the point at which having a computer, and very often a high speed connection, is as common as using a paper and pencil. Wireless networking and the ability to secure those networks from malicious intent is a critical skill set you will want to add to your professional skills and a valuable commodity you will want to offer your clients.

Advance courses - Lighting

L309 Designing Stage Lighting
3 Credit Hours (CTS,CTS-D,CTS-I)
English

This is a course for the lighting professional who wishes to develop and hone their lighting design skills. The course provides information about the design and implementation of a lighting plot and explains how to position instruments, blend and tone the lighting, calculate the illuminance, beam width and number of lights required, and make critical adjustments. An understanding of lighting instruments, rigging practices and lighting systems is helpful.

Advance courses - Telephony

T302 Fundamentals of Telephony
4 Credit Hours
English

Communication technologies are making the world smaller. The ever-increasing amount of information that can be carried by today's telephone lines makes telephony an integral part of many meetings and presentations. Familiarity with the systems that are available and how they operate will allow Event Technology professionals to satisfy their client's communications needs.

T303 Fundamentals of ISDN
4 Credit Hours
English

Digital systems dominate communications in homes and businesses. Numerous options and applications are available, and improvements are introduced regularly. Understanding legacy frameworks and protocols are crucial in order to meet the expectations of event clients.

T304 Fundamentals of DSL
4 Credit Hours
English

Options surrounding digital communications seem to grow daily. This course untangles the myriad of acronyms and compares benefits of a variety of systems helping you to understand how we got to this point and providing a basis of technical history on which to plan for the future.

Advance courses - Video

V306 Professional Camera Setup
3 Credit Hours (CTS,CTS-D,CTS-I)
English

While many brands of professional video cameras are available on the market, there are certain elements of setup that are common to all. This course presents the basics of fluid-head tripod and camera setup with emphasis on studio configuration, electronic setup, and camera moves.



Technician Training Course Catalog

Advance courses - Video

V308 Scalers and Scan Converters
3 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician has to deal with some form of video display technology. Technology has advanced over the past decade to the point that standard displays can no longer support the signals being presented to them. This aspect of video technology has progressed far past the NTSC standard. An advanced understanding of scaling technologies that incorporate scan conversion and connectivity is a critical skill set you will want to add to your professional skills and a valuable commodity you will want to have.

V309 Video Distribution
3 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician must deal with some form of display technology. The distribution of signals is a commonplace need for almost every type of staging event. An advanced understanding of signal distribution and trouble shooting is a critical skill set you will want to add to your professional skills.

Expert courses - Audio

A408 Digital Audio Recording
5 Credit Hours
English

This course introduces the event technician to advanced concepts in digital audio. This course provides an in-depth understanding of digital audio and cuts through much of the marketing hype that clouds the technology. Digital audio has become the default standard for the recording and playback of all types of audio. An understanding of this technology is a critical skill set you will want to add to your resume.

Expert courses - Connectivity

CN401 Getting Connected
5 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician has to deal with some form of computer technology. Computers and the Internet have advanced very quickly over the past decade to the point at which having a computer, and very often and high speed connection, is as common as using a paper and pencil. An advanced understanding of the Internet and what it means to be connected is a critical skill set you will want to add to your professional skills and a valuable commodity you will want to offer your clients.

CN402 Virtual Private Networks
5 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician has to deal with some form of computer technology. Computers and the Internet have advanced very quickly over the past decade to the point at which having a computer, and very often and high speed connection, is as common as using a paper and pencil. An advanced understanding of the Internet and the inherent risks involved in being connected to it is a critical skill you will want to add to your professional resume.

CN403 Wireless Networks
5 Credit Hours (CTS,CTS-D,CTS-I)
English

Every event technician has to deal with some form of computer technology. Computers and the Internet have advanced very quickly over the past decade to the point at which having a computer, and very often and high speed connection, is as common as using a paper and pencil. An advanced understanding of the newest form of connectivity - Wireless Networking - and the inherent risks involved in connecting wirelessly is a critical skill set you will want to add to your professional skills.



Technician Training Course Catalog

Expert courses - Lighting

L403 Intermediate Lighting Design
5 Credit Hours (CTS,CTS-D,CTS-I)
English

This is an intermediate course that addresses the more subjective aspects of lighting design including using soft light, how and why to match color temperature, and how to choose colors based on color harmony and the seven contrasts. It teaches an approach to combining colors and using color symbolism to elicit a desired response.

Expert courses - Power

P401 Power Distribution
10 Credit Hours (CTS,CTS-D,CTS-I)
English

This course concentrates on medium and large portable multi-phase AC distribution systems. Power is the common denominator used by all AV equipment, and understanding how it affects equipment performance can save time when troubleshooting interference in audio or video presentation systems.

Expert courses - Video

V407 Analog Production Systems
5 Credit Hours (CTS,CTS-D,CTS-I)
English

The technical quality of the video signal becomes critical for multicamera EFP (Electronic Field Production) if the client plans to edit or duplicate videotape produced by your organization. An understanding of cameras, switching system components, synchronization, timing, and recording techniques can assure you that the product you are producing conforms to professional standards. The information in this course will also be helpful in interpreting customer specifications and specifying equipment from re-rent sources. This course is knowledge you will want to add to your professional video skills.

V408 HDTV
5 Credit Hours (CTS,CTS-D,CTS-I)
English

This is an advanced course on HDTV and how it impacts the event technician. This course covers all of the basic concepts of HD and outlines the issues involved with recording and presenting HD content including storage media, cable connections, transmission issues, and audio concepts.

V409 Interfacing Digital Video
5 Credit Hours (CTS,CTS-D,CTS-I)
English

With the advent of twisted pair and fiber optic technology for Event Technology applications, the limits of cable transmission have been vastly expanded. High resolution video, including HDTV and computer graphics, must be capable of distribution to multiple displays. HDMI connections solve a lot of connection issues, but can cause a few of their own when it comes to signal distribution and copyright protection.