

Global Educational Services

Training Solutions Catalog

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CERTIFIED COURSES

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General Information

Bird® Technologies Group has provided hardware based solutions to customers for over 60 years; offering training and related services was the next logical step in the evolution of our overall strategy. We view training as successful "knowledge" transfer, not simply offering and holding classes. Our vision is to become the benchmark (preeminent supplier) that all other companies aspire to in the RF Industry Educational Services arena. We offer highly differentiated services that facilitate the most expedient and effective transfer of knowledge, so that our customers are more successful than their competitors. Global Educational Services (GES) develops and delivers educational services across a variety of vehicles, class room training, and custom solutions that increase the knowledge of our customers making them more efficient contributors to their organizations and a greater value to their respective clients.

Global Educational Services (GES) offers training services and solutions related, but not limited to, Bird Electronic and TX RX products, various market specific applications, certifications, radio frequency theory/fundamentals, and complimentary technologies as required to meet the needs of our customers.

Our courses are arranged in two (2) major categories: Certified and Non-Certified. The certification courses require students to pass a written exam and in many cases a laboratory practical exam as well. The noncertified courses do not require students to take a written exam or lab practical exam.

If for any reason you are not completely satisfied with a particular course, you may attend another course of your choice for free.

Registrations are taken on a first-come, first-serve basis. Enrollment is limited in all courses; therefore, to ensure seat availability, register as early as possible.

Don Huston Tel: 440.519.2228 Fax: 440.248.3790 Email: dhuston@bird-technologies.com Website: www.bird-technologies.com

Bird Technologies Group Training Facility 29100 Aurora Road Suite 400 Solon, OH 44139

All classes run from 8:00 am to 4:00 pm. Tuition fees include all course manuals. Students are responsible for all travel and living expenses and arrangements.

Prices listed are subject to change without notice. Prices for scheduled courses courses include tuition, all appropriate manuals, and instruction materials. NOT included are student travel and living expenses.

Bird Technologies Group - Global Services reserves the right to cancel a course due to under-enrollment. In the event of a course cancellation, we will notify the students as soon as possible. Students must notify the Training Center of cancellation two (2) weeks prior to the course date for full refund. Students are advised to purchase refundable airline tickets.

Course documentation and printed material provided in Bird Technologies Group training courses are copyrighted and may not be reproduced without prior written permission. No audio or visual recording of Bird Technologies Group training courses, or of a Bird Technologies Group personnel teaching such courses, may be taken or reproduced electronically.

Visit www.bird-electronic.com for course information.





Bird® Technologies Group, consisting of Bird® Electronic Corporation and TX RX Systems Inc.®, is a global, innovative supplier of RF products, systems, services and educational solutions, which enable our customers' success. We specialize in Measurement and Management of RF in your world. Please visit the http://www.bird-electronic.com or http://www.txrx.com website for information concerning Bird® Electronic Corp. or TX RX Systems Inc®.



BIRD TECHNOLOGIES GROUP - GLOBAL EDUCATIONAL SERVICES - ENROLL NOW! CALL 440.519.2228

TRAINING SERVICES AND SOLUTIONS

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CLASS LOGISTICS

PRICES

COURSE CANCELLATION

COURSE DOCUMENTATION

ONLINE COURSE INFORMATION

In-Building Coverage Certificate Training

SUMMARY:

TX RX Systems Inc., part of the Bird Technologies Group, through GES, offers specialized training in the assessment, design, installation and commissioning of RF coverage enhancement systems, as well as comprehensive, hands-on training in the operation and optimization of the TX RX Signal Booster product line. TX RX has expanded the number of features available for use in maximizing system uptime. The TX RX Signal Booster II is an easy to operate, user friendly solution for installers and maintenance technicians, and for site operators or owners, even under the most difficult installation conditions. The new Signal Booster II provides unparalleled performance and specifications making it the leader in indoor RF signal distribution products.

From caves and tourist attractions to airports and subways, TX RX Signal Boosters have found their way into critical applications that depend on maximum system uptime and operation under the most demanding of events and situations. Current societal needs for two-way communication in public safety demand 24/7, all the time operation with installations in locations such as courthouses, federal buildings, hotels, and sporting complexes. Airports, rail, subway stations and any other point of public transportation may require additional signal amplification to insure complete coverage to meet communication needs. TX RX Systems Inc. provides Signal Boosters for Private Wireless as well as Public Safety communication applications.

Training Agenda (2 Days): Topics will include basic RF theory, FCC rules and regulations governing Signal Booster systems, typical applications, system design and optimization, equipment set-up and use, and system maintenance. The course is designed to accommodate users across a variety of applications and at various technical levels.

COURSE STRUCTURE:

A full class outline and schedule are included, but much of the training centers on the design and installation of Signal Booster systems and covers practical,

real-world approaches to typical and highly specialized installations. Class time will include hands-on use of the Signal Booster II product. Troubleshooting techniques and practices will allow the field technician to quickly identify critical system operating parameters for system optimization, and in the unlikely event of a component failure, rapidly identify and remedy those conditions insuring continued system uptime. Training may be customized to fit the needs of those attending.

TARGET AUDIENCE:

- RF Site Manager **RF Site Technicians RF Site Installers**
- RF Field Engineers
- RF Systems Engineers

MATERIALS SUPPLIED:

Course materials (including Signal Booster II operations manual and training manuals).



SIGNAL BOOSTER II CERTIFICATION Upon completion of training, each participant will receive Signal Booster II certification, issued by the BTG/GES, that shows the participant has acquired the skills and understanding to successfully operate the Signal Booster II under the field conditions covered by the course. Signal Booster II Certification will require attendance at lecture sections and during hands-on practical applications. Testing of knowledge and skill will be part of the certification process

CERTIFICATION STANDARD Written Exam Lab Practical Exam Photo Certification ID (Must pass written & Lab practical exam)





Site Analyzer Certificate Training

SUMMARY: Bird® Electronic Corporation offers specialized training for all of its Site Analyzer (SA) family of products from the new SA-1700 and 1700-P through the SA-4000. Bird® has expanded the number of tools available for use in maximizing system uptime. Bird® Site Analyzers® are an easy to operate, user friendly solution for installers and maintenance technicians, and for troubleshooting even the most complex antenna and feed line systems. The Site Analyzer® provides sweep and match data, showing VSWR, Return Loss, or Cable Loss (Insertion Loss) depending upon the users preference, as well as distance to fault measurement for system repair and maintenance. The SA may be used with the Bird® Digital Power Sensor Model 5010 in-line or the Bird® Wide Band Power Sensor Model 5012, the SA will provide accurate power measurement in very complex modulation types by making specific measurements such as peak power, burst average power, crest factor and CCDF.

Topics will include basic RF theory, site overview and operation, equipment set-up and use, test and measurement of feed line and antenna system characteristics, and documentation and report analysis. The course is designed to accommodate user's across a variety of applications.

COURSE STRUCTURE: A full class outline and schedule are included, but much of the training centers on a practical, real-world approach to line sweeping and distance to fault measurement. Class time will include hands-on use of the Site Analyzer® with actual equipment that would be installed on site. Troubleshooting and distance to fault measurement will be used to find faulty and failed equipment. Training may be customized to fit the needs of those attending.

TARGET AUDIENCE

- Cell Site Manager
- Site TechniciansField Engineers
- Site Installers
 Cell Carriers
- Construction Companies

MATERIALS SUPPLIED

 Course materials (including the Site Analyzer® operations manuals and training manuals)



SITE ANALYZER®CERTIFICATION

Upon completion of training, each participant will receive Site Analyzer® certification, issued by the Bird®Electronic Corporation, that shows the participant has acquired the skills and understanding to successfully operate the Bird Site Analyzer® under the field conditions covered by the course. Site Analyzer® Certification will require attendance at lecture sections and during hands-on practical applications. Testing of knowledge-edge and skill will be part of the certification process.

CERTIFICATION STANDARD Written Exam Lab Practical Exam Photo Certification ID (Must pass written & Lab practical exam)

NON-CERTIFICATION CLASS Non-certification class also available which does not include testing, but does offer familiarization training with the products and processes. Good for those needing an overview or refresher, but not in depth operational training.

Line & Antenna Sweeping **Certificate Training**

Bird® Technologies Global Educational Services offers specialized training SUMMARY: for all of its Site Analyzer® (SA) family of products from the new SA-1700,1700-P, SA-4000, as well as the Anritsu Site Master®. Bird® has expanded the number of tools available for use in maximizing system uptime. For installers and maintenance technicians troubleshooting even the most complex antenna and feed line systems. The Site Analyzer® and Site Master® provide sweep and match data, showing VSWR, Return Loss, or Cable Loss (Insertion Loss) depending upon the users preference, as well as distance to fault measurement for system repair and maintenance.

Topics will include basic RF theory, site overview and operation, equipment set-up and use, test and measurement of feed line and antenna system characteristics, and documentation and report analysis. The course is designed to accommodate user's across a variety of applications.

A full class outline and schedule are included, but much of the COURSE STRUCTURE: training centers on a practical, real-world approach to line sweeping and distance to fault measurement. Class time will include hands-on use of the Site with actual equipment that would be installed on site. Analyzer® or Site Master® Troubleshooting and distance to fault measurement will be used to find faulty and failed equipment. Training may be customized to fit the needs of those attending.

TARGET AUDIENCE

- Cell Site Manager
- Site Technicians Field Engineers
- Site Installers Cell Carriers
 - Construction Companies

- MATERIALS SUPPLIED
- Course materials (including the Site Analyzer®/Anritsu Site Master® operations manuals and training manuals)



INSTRUMENT CERTIFICATION

Upon completion of training, each participant will receive Site Analyzer® or Site Master® certification, issued by Bird® Electronic Corporation, that shows the participant has acquired the skills and understanding to successfully operate the Bird Site Analyzer® or Anritsu Site Master®under the field conditions covered by the course. The Certification will require attendance at lecture sections and participation in hands-on practical applications. Testing of knowledge and skill will be part of the certification process.

CERTIFICATION STANDARD Written Exam Lab Practical Exam Photo Certification ID (Must pass written & Lab practical exam)

NON-CERTIFICATION CLASS

operational training.

Non-certification class also available which does not include testing, but does offer familiarization training with the products and processes. Good for those needing an overview or refresher, but not in depth



Please Print or Type: (Application can not be processed if all information is not complete.)

| 1. | | | | | | |
|--|------------------------------|----------------------------------|-------------------|---|---|--|
| Name | Title | | | CERTIFIED COURSES | COURSE NUMBER | |
| | | | | In-Building Coverage | CLS-SB-C | |
| Course Number | *Date | | Price | Site Analyzer Training | CLS-SA-C | |
| | | | | Line & Antenna Sweep | CLS-LAS-C | |
| Cell Phone | Email | | | NON-CERTIFIED COURSE | COURSE NUMBER | |
| Name | Title | | | Site Analyzer Familiarization | CLS-SAF-C | |
| Name | Inte | | | Line & Antenna Sweep Familia | arization CLS-LASF-C | |
| Course Number | *Date | | Price | *DATES & LOCATIONS Please visit our website for up | | |
| Cell Phone | Email | | | www.bird-technologies.com | or call 440.519.2228 | |
| . Name | Title | | | | | |
| | nuo | | | Hotel Information I Room Reservations are the cl | Registration ass participant's responsibility | |
| Course Number | *Date | | Price | The Hampton Inn (Hilton) 6035 Enterprise Parkway, Solon, Ohio 44139 Tel: 440.542.0400 / 1-800-HAMPTON | | |
| Cell Phone | Email | | | Fax: 440.582.0353 | | |
| Name | Title | | | The Springhill Suites (Ma 30100 Aurora Road, Solor Tel: 440.248.9600 / 1-800- | n, Ohio 44139 | |
| Course Number | *Date | | Price | Fax: 440.248.9120 (Hotels close to training facilit | y) | |
| Cell Phone | Email | | | | | |
| our enrollment application is NOT a guarantee of placement e credit card information below. Payment in full is required redit card has been charged). Class size is limited and will | 2 weeks prior to course date | e. You will be notified of place | | | | |
| How did you hear about us? please circle one | Website | Representative | Distributor | Other: | | |
| | | | | | | |
| Company Name | | | | | | |
| Address | City | | State | Zip | | |
| Contact Name | Office | Phone | | Fax | | |
| Payment Information (Please pay befo | re workshop) | Bird Technologies G | roup accepts eith | her: []Credit Card []C | heck [] P.O. | |
| Credit Card No. | Expiration Date | | Amo | unt [] Maste | er Card [] VISA | |
| Name as it appears on card | | | Card | Holder's signature | | |
| Check Number | Amount | | | | | |
| P.O. Number (Hardcopy Required) | | | | | | |
| Fax Application(s) to: 440.248.3790 - Attention: Or, Mail to: Bird Technologies Group - c/o Don Hu | | ad, Suite 400, Solon, Ohi | o 44139 | Bird Te 29100 A Suite 40 | g Location chnologies Group Aurora Road 00 OH 44139 | |

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