NOTIFIER®
by Honeywell

Training Announcement

BDA TRAINING – NOW AVAILABLE

NOTIFIER's Bi-Directional Amplifiers (BDAs) System: Our exciting new Public Safety Signal Boosters that Enhance In-Building Emergency Responder Radio Communications

March 2018

As we remain focused on launching our Bi-Directional Amplifier (BDA) solution by the end of Q1, we would like to provide all of our Partners the best possible experience in benefiting from this exciting and growing adjacency. In conjunction with Radio Solutions, Inc (RSI), NOTIFIER has confirmed our training schedule.

Training will be held at NOTIFIER's BDA supplier partner, Radio Solutions, Inc. (RSI), facility located in Norwell, MA. The 3-day technical training program has been specifically developed to enable NOTIFIER fire alarm technicians to successfully deploy, test and service NOTIFIER ERCES (Emergency Radio Communication Enhancement Systems / BDA. RSI will share their 20+ years of experience in deploying BDA systems and introduce the participant to public safety radio, Emergency Radio Communication Enhancement Systems, code requirements, signal surveys, and hands-on training for installation, testing and service.

Stay ahead of competition - Register today to receive:

- Access to BDA Technical Resources web site* which includes knowledge base and Live Q & A section. Each registration includes access for up to 10 users from your company to the web site.
- Access to Sales Training and System Design webinars and other Training Resources
- Learn how to Quote and Estimate BDA projects
- Request budget estimates for BDA projects through your Regional Sales Manager

**BDA resources web site launch is expected by March 15*

We encourage our distributors to sign up early for the training program to get immediate access to these valuable resources.

BDA Training will be 100% reimbursable utilizing your available CoOp funds!

- Per the guidelines of the latest Partner/Premier CoOp Policy, posted on the NOTIFIER website
- Costs of tuition fees to attend instructor-led training classes offered by RSI. This excludes all travel-related expenses (airfare, car rental, hotel, food, etc.)

HOW TO REGISTER

To register for one of our upcoming classes, please follow the steps below.

1. SELECT A DATE:
   - Select one of the following dates
   - *Additional dates will be added if classes fill up. Additional training classes will be scheduled for later dates also.*

   Note: Minimum participants will be required for each class and registrations will be finalized at least 2 weeks before the class date. Please wait for confirmation before booking travel, hotel.

   - March 6-8
   - March 13-15
   - March 20-22
   - March 27-29
   - April 10 - 12
   - May 1- 3
   - May 22-24

2. REGISTER:
   - Email mahesh.nanjakla@honeywell.com with below details or register online:
     a. Training Participant Name
     b. FCC GROL License No of the technician
     c. Preferred Training Class Date
     d. Purchase Order for 3 units for BDA-TRAINING-1DAY totaling $1492.50 for each participant

NOTE: GROL is not required for registration or to attend technical training, however, GROL license is required for at least one of the BDA-certified radio technicians before the BDA equipment can be purchased from NOTIFIER.

Please see below for FCC GROL Resources.

REGISTER ONLINE!
You may also register online, please make sure to read the instructions as outlined.
- Click on this link: BDA Training Registration and complete the online form.

FACTORY 3-DAY TECHNICAL TRAINING COURSE REQUIREMENTS:

To attend the factory hands-on training, all attendees must bring the following items:
- Basic Test Equipment and Tools which are required to deploy and service BDA systems. Please see below for the availability and the list of required items.
- Windows 7 or 10 laptop with Wi-Fi, USB

PREREQUISITES TO PURCHASING BDA / SIGNAL BOOSTERS:

1. At least one technician needs to attend 3-day factory training to obtain the product training certification
2. At least one factory certified technician needs to obtain a FCC GROL license. NOTE: You only need elements 1 & 3 for GROL

NOTIFIER BDA WEBINAR SERIES

In addition, join us for the NOTIFIER BDA 3-part webinar series. Scheduled to begin March 9th, the initial webinar will describe the growing & profitable BDA market, competitive advantages, how it fits with your core fire business, and exactly what is needed to enter this exciting space. Learn how our BDA solution can provide recurring annual service revenue and ultimately improve your operating income!

As we move forward with our new and exciting solution, we will continue to provide you updates including our official launch announcement, documentation, and updates to our training schedule.

If you have any questions regarding training classes, please reach out to mahesh.nanjakla@honeywell.com. For additional information, please contact your Regional Sales Manager.

Thank you for your continued support and interest in BDA!

FCC GROL LICENSING RESOURCES:

Recommended Website: Previously used by other ESDs, training and licensing was accomplished within one week! https://uscaptainstraining.com/

Additional Resources:

- **Recommended Study Book:** "GROL+RADAR book & software" by Gordon West, Pete Trotter, Eric Nichols. Available on Amazon: https://www.amazon.com/GROL-RADAR-book-software-Gordon/dp/0945053614
- **FCC Web page with info:** https://www.fcc.gov/wireless/bureau-divisions/mobility-division/commercial-radio-operator-license-program
- **You can download question pools from here:** https://www.fcc.gov/wireless/bureau-divisions/mobility-division/commercial-radio-operator-license-program/examinations#block-menu-block-4
- **Testing locations:** https://www.fcc.gov/wireless/bureau-divisions/mobility-division/commercial-radio-operator-license-program/commercial

NOTE: You only need elements 1 & 3 for GROL

TOOLS AND TEST EQUIPMENT ORDERING INSTRUCTIONS:

What tools and equipment are required for factory training?

- Spectrum Analyzer
- RF Test Accessory Kit
- At least one TP9400 portable radio
- Programming cable and software for the radio

Where can I purchase the required tools and test equipment?

- Available from RSI with discounted pricing: Everything will be available for purchase soon on RSIBDA.COM store. In the meantime, please email your request to: TECHSTORE@RSIBDA.COM
- Equipment can be purchased ahead of time and it will be waiting here for the training. We can ship everything to ESD's location after the training.
- Everything is also available for purchase from other sources

List of Test Equipment and Descriptions

- **Spectrum Analyzer (SA)**: Spectrum analyzer Model DSA815TG by Rigol. TG Tracking Generator option is required. Pre-amplifier is also required and it is included as standard on all new units. Available for purchase from RSI.
  - Discounted Cost: $1,299.00 with TG option
  - Availability: Available online from multiple sources
  - RECOMMENDED: Carry Bag, Model BAG-G1 by Rigol @ $155.00 ea.
  - OPTIONAL: VB1080 - VSWR Bridge. Allows WSWR measurements for testing antennae.
- **RSI RF Test Accessory Kit**. PN: RFK-1010. One Kit required for each technician/SA. Discounted Cost: $1,085.00 ea. Available for purchase from RSI. The kit Includes:
  - Qty 3 of RF Jumper, 6' long double shielded RG142/U with NM-NM Connectors
  - Qty 2 of RF Jumper, 5' long RG402 with SMA-Male Connectors
  - Qty 2 of RF Jumper, RG316 12" Long, N-Male to SMA-Male
  - Qty 3 of RF Adapter SMA-Female to N-Male
  - Qty 2 of RF Adapter, N-Female to N-Female

TOOLS AND TEST EQUIPMENT ORDERING INSTRUCTIONS (Continued):

- Qty 3 of RF Adapter, SMA-Female to SMA-Female
- Qty 2 of RF Attenuator, 40dB / 10W with NM-NF Connectors
- Qty 2 of RF Attenuator, 20dB / 10W with NM-NF Connectors
- Qty 3 of RF Attenuator, 30dB, 10dB, 5dB / 5W with SMA-M to SMA-F Connectors
- Qty 2 of 50 Ohm / 10W Termination with N-Male Connectors
- Qty 3 of 10dB Directional Coupler (BHF, UHF, 700/800MHz
- Qty 1 of 5/16 Wrench for SMA connectors

- **Portable Radio, Model TP9425 P25 by Tait / Harris**. 3 models available for coverage of VHF (136-174MHz), UHF (450-520MHz) and 700/800 band (762-870MHz). Each radio set includes charger, battery, clip and antenna. Discounted Cost: $995.00 each. Available for purchase from RSI
  **Note: AHJs operate on different frequency bands. In some regions, only 700/800 MHz is used while in others UHF or VHF may be more common. Portable radios are used for signal surveys and other signal measurements and they need to match AHJ frequencies. Also, please note that in very rear occasions AHJs may require BDA system installers to purchase specialized, compatible radios for testing on their radio system. In that case, they will also provide the specific source from where to purchase the required radios.*
- **Programming cable and programming software for Portable Radios** – required to program AHJ-specific frequencies into portable radios. Cost $158.00 each set. Available for purchase from RSI

Specialty/Other Tools:

- **Automated Cable Trimming Tool / Drill Attachment for ½" Cable** Automated trimming tool designed to prepare ½" plenum-rated air dielectric coaxial cables for attachment of N-type connectors. Cost $184.00 each. (available from RSI)
- **Automated Cable Trimming Tool / Drill Attachment for ¼" Cable** Automated trimming tool designed to prepare ¼" flexible coaxial cables for attachment of N-type connectors. Cost $221.00 each. (available from RSI)
- **15/16" Wrench (**2 required) – used for tightening ½" connectors (available from multiple sources, this is a standard size wrench)
- **Power Tools:**
  - Drill for the connector prep tool – We recommends a small, compact and lightweight model such as Milwaukee model M12 12V LI-IO 3/8": https://www.milwaukeetool.com/power-tools/cordless/2407-22
  - Compact, Carless Reciprocating Saw – We recommend Milwaukee model M12 Hackzall, SKU 2420-22. This tool is necessary for making clean cable cuts for the connector prep tool. https://www.milwaukeetool.com/power-tools/cordless/2420-22
  - Hammer Drill, Cordless

Recommended Hand Tools:

- Wire cutters (Flush Cut)
- Screwdrivers set
- Pliers set
- Wrenches
- Folding utility Knife
- Wire Stripping Tool
- Multimeter (we recommend Fluke 117)
- Tool bag
- Extension cord for spectrum analyzer
- 12 to 110V converter to operate Spectrum analyzer inside a vehicle
- Label maker, markers, pen
- Measuring and leveling tools
- Other hand tools as needed