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## RedCONNEX Product Support Certification Program

### Redline Certified Support Associate (RCSA) –AN50e Course Description

**Course name:**

AN-50e Deployment, Basic Config and Installation (AN-50e DCI)

**Objective:**

**The student attending this course should:**

- Understand how to effectively deploy the AN50e wireless system
- Be capable of putting the AN50e system components together, install the AN50e, align the link and perform basic configuration for network connectivity and wireless link operation
- Be capable of performing basic configurations on the AN50e system to ensure end-to-end data connectivity for user traffic streams including WiFi and VPN

**Certification Criteria:**

In order to receive the certification, students must:

- Complete the AN50e DIC course workshop
- Pass the RCSA-AN50e exam

**Course Duration:**

1-day instructor led and hands-on training

**Target Audience:**

The target audience for this workshop includes engineers, field technicians and installers who will design, install, configure and operate the AN50e system. Students who receive RCSA-AN50e Certification are eligible to take the next level of certification, Redline Certified Support Professional (RCSP-AN50e).

**Delivery format:**

This course is Instructor Led (IL) in a workshop format.

**Pre-requisite Knowledge Requirement:**

- Basic knowledge of RF signals and systems, digital modulations schemes, RF link impairments such as multipath, fading, signal attenuation.
- Working knowledge of the TCP/IP networking model, hands on knowledge of working with L2 and L3 networking devices, the ability to use a computer in a network environment

## **RCSA-AN50e Course Content Details**

### **Module-1: AN-50e PTP/PMP Overview, Application and Deployment**

This module defines AN-50e PTP and PMP, explains the various differentiators of the products, discusses link configurations, AN-50e applications deployment in various networks.

### **Module-2: AN-50e PTP Configuration for wireless and data connectivity**

This module covers the AN-50e PTP configuration parameters in a hands-on setup. Product parameters are configured for operation in a typical installation environment situation only. AN-50e management using HTTP, Telnet and HyperTerminal is introduced. Product features such encryption over the wireless link, adaptive modulation, ATPC, DFS and power management are explained and typical exercises assigned to trainees to perform.

### **Module-3: AN-50e PMP Configuration for wireless and network connectivity**

The AN-50 PMP deployment is explained, configuration of the Sector Controller and Subscriber Station in the installation environment is completed. Link, Group and Connection configuration is explained and learned through multiple hands on exercises.

### **Module-4: Installation and Link Alignment**

This module covers basic equipment assembly, grounding, weather proofing and lightning protection in a hands-on and “how to” environment. Students are enabled to establish trial links and practice link alignment and link fine tuning. The use of alignment tools such buzzer, RF monitor and DC pin is highlighted and practiced. Link quality and link alignment quality are reviewed and fine tuning tips and techniques are discussed.

## **More Information**

For further information on training and certification, please contact the Redline Training Department at [training@redlinecommunications.com](mailto:training@redlinecommunications.com).

## **About Redline Communications**

Redline Communications is the leading provider of standards-based wireless broadband solutions. Redline's WiMAX Forum Certified™ systems and award-winning backhaul and transport products enable service providers and other network operators to cost-effectively deliver high-bandwidth services including voice, video and data communications. Redline is committed to maintaining its wireless industry leadership with the continued development of WiMAX and other advanced wireless broadband products. With more than 30,000 installations in 75 countries, and a global network of over 100 partners, Redline's experience and expertise helps service providers, enterprises and government organizations roll out the services and applications that drive their business forward. For more information, visit [www.redlinecommunications.com](http://www.redlinecommunications.com).