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## RedCONNEX Product Support Certification Program

### Redline Certified Support Associate (RCSA) –AN80i Course Description

**Course name:**

AN-80i Deployment, Basic Config and Installation (AN-80i DCI)

**Objective:**

The student attending this course should be enabled to put AN-80i system components together, install it the system, align a link and perform basic configuration for network connectivity and wireless link operation.

**Certification Criteria:**

In order to receive the certification, students must:

- Pass the RCSA-AN-80i certification exam

**Course Duration:**

1-day instructor led and hands-on training

**Registration code:** RCSA-80i-1

**Target Audience:**

The target audience for this workshop includes engineers, field technicians and installers who will design, install, configure and operate the AN80i system.

**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-AN80i Course Content Details**

### **Module-1: AN-80i Overview, Application and Deployment.**

This module defines the AN-80i as a transparent Ethernet bridge, highlights product differentiators, discusses link configurations, AN-80i applications and the AN-80i competitive landscape and roadmap.

### **Module-2: AN-80i Configuration for Wireless and Network Connectivity**

This module covers the AN-80i configuration parameters in a hands-on setup. Product parameters are configured for operation in a typical installation environment situation only. AN-80i management and through HTTP and Telnet is introduced. Product features such encryption over the wireless link, adaptive modulation, ATPC, use of different channel size and power management is explained and typical exercises assigned to trainees to perform.

### **Module-3: AN-80i Link Installation and 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 and the RF monitor is highlighted and practiced. Link quality and link alignment quality are reviewed and fine tuning tips and techniques are discussed.

### **Module-4: Basic Fault Simulation and Troubleshooting**

This is the hands on module of the course. Students simulate typical real life situation on the RF link, execute product performance validation exercises, experiment various fault situations, perform upgrades on the system, simulate and study RF interference and mitigation situations

## **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).