

# CDMA/EVDO Base Station Measurements Troubleshooting Training Course

## Base Station Measurements using the MT8212B Cell Master

An intense two-day instructor led training course that focuses on Base Transceiver Station measurements, helping you reduce operating expenses by enhancing the skill set of your employees.

- **Hands-on:** Learn by doing! Perform the measurements and master them. A significant portion of the course contains labs with simulated signals and conditions measured with the MT8212B Cell Master.
- **Thorough Emphasis:** Students will learn to perform typical BTS measurements including Line Sweeping, Over the Air and demodulated RF measurements, Interference Analysis, Spectrum Analyzer based measurements, and CDMA Code domain measurements.
- **Cost Savings:** Eliminate or significantly reduce your travel expenses because training sessions are offered at a location close to you (or even at your location).
- **Schedule:** Training sessions can be easily scheduled months in advance. Get more specific details regarding class location, including information about discounts or having a dedicated training session at your company site.
- **Contact us directly:**  
Email us at [us-training@anritsu.com](mailto:us-training@anritsu.com).  
Register on-line at [www.us.anritsu.com/training](http://www.us.anritsu.com/training),  
or contact one of our distributors:
  - **Hutton Communications**  
(877) 648-8866 ext. 0196  
[www.huttoncom.com](http://www.huttoncom.com)
  - **Primus Electronics**  
(800) 435-1636  
[www.primuselectronics.com](http://www.primuselectronics.com)
  - **Talley Communications**  
(800) 949-7079  
[www.talleycom.com](http://www.talleycom.com)
  - **Tessco**  
(800) 472-7373  
[www.tessco.com](http://www.tessco.com)

## Who Should Attend Anritsu's Base Station Measurement Training?

- Cell Technicians
- System Performance Engineers/Field Engineers
- Base Station OEMs
- Site Managers
- BTS Installers

## You Will Learn

- Line Sweeping Principals – Return Loss and DTF (Distance-To-Fault).
- Spectrum Analysis Basics – some RF theory, how to use a spectrum analyzer; identifying signal types, common measurements such as Occupied Bandwidth, ACPR, Channel Power, and C/I.
- Interference Analysis – Spectrograms, Signal Strength, RSSI, and Signal ID.
- Power Meter Measurements.
- Two Port Transmission Measurements (TMAs, etc.).
- CDMA measurements such as Code Domain Power, Pilot Power, Multi-channel rho, Carrier Frequency Error, RMS Channel Power, Carrier Feed-through, PN Offset, Tau, Channel Power, Pilot Power, Sync Power, Page Power, PN number, 3 strongest pilots, Multipath – Delay in distance and Multi-channel rho.
- EVDO (CDMA2000 1xEVDO) measurements such as Pilot/Mac power, Pilot power, Occupied Bandwidth, Carrier frequency, Idle activity, Idle Data power, etc.
- Channel Scanner Measurements.
- CW Generator Measurements.



Anritsu

# Yes! Sign up now for the CDMA/EVDO Base Station Measurement and Troubleshooting Course ...

## What You Get:

- Course Manual
- Certificate of Completion

### Course Fees (call for pricing):

CDMA/EVDO Base Station  
Measurement & Troubleshooting  
Course (at Anritsu specified location)

CDMA/EVDO Base Station  
Measurement & Troubleshooting  
Course (at your location)

### Course Outline:

**Lecture 1:** Introduction

**Lecture 2:** Cable Analyzer  
(Line Sweeping), Calibration, and  
Return Loss

**Lecture 3:** Spectrum Analysis

**Lab 1:** Spectrum Analyzer  
Familiarization, Functions, Advanced  
Measurements, CDMA signal  
measurements (Occupied Bandwidth,  
Channel Power, ACPR, Spurs)

**Lecture 4:** Interference Analyzer

**Lecture 5:** Power Measurements

**Lecture 6:** Transmission Measurements

**Lecture 7:** GPS

**Lecture 8:** Channel Scanner

**Lecture 9:** CW Generator

**Lecture 10:** CDMA Basic Theory  
and Measurements

**Lab 2:** CDMA Measurements including  
Code Domain Power, Pilot Power, Rho,  
Tau, Ec/Io, PN Scan, Pilot Dominance,  
 $\Delta$ Sync,  $\Delta$ Page,  $\Delta$ QPage, etc.

**Lecture 11:** EVDO Measurements

For the most recent training schedule visit:

[www.us.anritsu.com/training](http://www.us.anritsu.com/training)

#### SALES CENTERS:

United States & Canada (800) ANRITSU  
South America 55 (21) 2527-6922 • Europe 44 (0) 1582-433433  
Japan 81 (46) 223-1111 • Asia-Pacific (852) 2301-4980

PN: 11410-00341, Revision A

©Anritsu February, 2006. All trademarks are registered trademarks of their respective companies.  
Data is subject to change without notice. For more recent specifications visit [www.us.anritsu.com](http://www.us.anritsu.com).

**Anritsu**

Discover What's Possible®