

# W-CDMA/HSDPA Node B Measurements Training Course

## Node B and Base Station Measurements using the MT8222A BTS Master™

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

- **Hands-on:** Learn by doing! Learn the theory and perform the measurements. A significant portion of the course contains labs with simulated signals and conditions measured with the MT8222A BTS Master.
- **Thorough Emphasis:** Students will learn to perform all the typical BTS measurements including Line Sweeping, RF Power Meter measurements, Interference Analysis, Spectrum Analysis, GSM/GPRS/EDGE Measurements, Channel Scanning and W-CDMA Code domain measurements.
- **Cost Savings & Convenience:** 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)

## 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 Principles**—Return Loss, DTF (Distance-To-Fault), Two Port Gain/Loss Transmission Measurements (for TMAs, Duplexers and repeater antenna isolation testing).
- **Spectrum Analysis Basics**—Some RF theory, how to use a spectrum analyzer, identifying signal types, common measurements such as Occupied Bandwidth, ACLR and Channel Power.
- **Interference Analysis**—Spectrograms, Signal Strength, RSSI, and Signal ID.
- **Power Meter Measurements**
- **Channel Scanner Measurements**
- **Node B Measurements** such as Code Domain Power measurement of parameters such as CPICH, PICH and PSCH, Code Domain Error, EVM, Occupied Bandwidth, Adjacent Channel Leakage Ratio and Carrier Frequency Error.
- **BTS Measurements for GSM (GMSK) and EDGE (8PSK)**—Power vs. Time (both Slot and Frame), Channel and Burst Power, Freq. Error, Occupied Band Width, TSC (Training Sequence Code), Phase Error, EVM (Error Vector Magnitude), Origin Offset, C/I (Carrier to Interference) and Demodulated IQ Pattern.



SiteMaster



CellMaster



SpectrumMaster



UMTS Master



BTS Master

Anritsu

# Yes! Sign up now for W-CDMA/HSDPA Measurements Training Course...

## What You Get:

- Course Manual
- Certificate of Completion

### Course Fees (call for pricing):

W-CDMA Base Station  
Measurement Course  
(at Anritsu specified location)

W-CDMA Base Station  
Measurement Course  
(at your location)

**Lab 1:** TMA Measurement

**Lecture 3:** Spectrum Analysis

**Lab 2:** Spectrum Analyzer

Familiarization, Functions,  
Advanced Measurements,  
W-CDMA signal measurements

**Lecture 4:** Power Meter

**Lecture 5:** Interference Analysis

**Lecture 6:** Channel Scanner

**Lecture 7:** GSM/GPRS/EDGE

**Lecture 8:** GPS

### Course Outline (Day 1):

**Lecture 1:** Introduction

**Lecture 2:** Cable Analyzer  
(Line Sweeping), Calibration,  
Return Loss and two port  
Transmission Measurement

### Course Outline (Day 2):

**Lecture 9:** W-CDMA Theory

**Lecture 10:** HSDPA Theory

**Lecture 11:** W-CDMA Node B  
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: 11410-00411, Revision A

©Anritsu November, 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®