

Introduction to RF & Microwave Spectrum Analysis Training Course

Specialized Spectrum Analysis Training using Handheld Spectrum Analyzer

One day course that provides a broad overview of the functions found in modern spectrum analyzers using Anritsu Handheld Spectrum Analyzers as an example.

This course features lectures and labs supporting the technology found in the MS2721A, MS2721B, MS2723B, MS2724B, MT8222A. For training based on the S332D, MS2711D and MT8212B, please see the "Introduction to Spectrum Analysis" course.

- **Hands-on:** Learn by doing the task and not by watching. 50% of the course is hands-on.
- **Critical Emphasis:** Fine tune the points and techniques that are of particular importance to your operations. Our skilled instructors and staff can tailor the module to meet your requirements.
- **Schedule:** Training sessions can be easily scheduled months in advance. Get more specific details regarding class location, including information on discounts or having a dedicated training session at your company site.
- **Contact us directly:**
Email us at us-training@anritsu.com
Register on-line at www.us.anritsu.com/training

Who Should Attend Anritsu's Spectrum Master Training?

- Wireless Carriers
- Base Station OEMs
- Field Engineers
- Site Managers
- WLAN Installers

You Will Learn

- Review of RF Basics
- A thorough understanding of Handheld Spectrum Analyzer operation
- How to make measurement such as Channel Power, Occupied Bandwidth, Adjacent Channel Power, Field Strength, Carrier to Interference Ratio

Yes! Sign up now for the Spectrum Analysis Training Course...

What You Get:

- Course Manual
- Certificate of Completion

Course Fees (call for pricing):

One day Specialized Spectrum Analysis course (at Anritsu specified location)

One day Specialized Spectrum Analysis course (at your location)

Course Outline:

Lecture 1: Introduction

Lecture 2: Spectrum Analyzers

- Types
- Basic Operation
- Characteristics
 - Frequency Range
 - Frequency Resolution
 - Sensitivity and Noise Figure
 - Video Filtering
 - Signal Display Range
 - Dynamic Range
 - Resolution Bandwidth

Lab 1: Basic Operation

Lecture 3: Modulation

- Amplitude Modulation
- Frequency Modulation
- Pulse Modulation

Lab 2: Modulation Measurements

Lecture 4: Cellular Telephone Modulation Techniques

- AMPS
- TDMA
- GSM
- CDMA

Lecture 5: Measurement Fundamentals

- Effect of Resolution Bandwidth
- Effect of Video Bandwidth
- Sweep Limitations
- Attenuations Functions
- Resolving Closely Spaced Signals
- Harmonic Distortion
- AM/FM
- Field Strength Measurements
- Creating a Spectral Mask

Lab 3: Advanced Measurements

Lecture 6: Field Measurements

- Occupied Bandwidth
- Channel Power
- Adjacent Channel Power
- Out of Band Spurious Emissions
- Field Strength
- C/I Ratio

Lab 4: Cellular Base Station Measurement

Cancellation Policy:

Contact Anritsu for Policy.

**For the most recent training schedule visit:
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: 11410-00445, Revision A ©Anritsu February, 2008. 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.

Anritsu

Discover What's Possible®