

Course Name: W-CDMA, HSDPA, Node B Measurement using the Anritsu BTS Master™

Course Overview: A two-day instructor led training course that focuses on Node B measurements, helping reduce operating expenses by enhancing your skill set. Our skilled instructors will cover both theory and practical application of Line Sweep, Spectrum Analyzer, Interference Analysis, and W-CDMA/HSDPA measurements. Hands-on lab exercises with the MT8222A BTS Master will reinforce lecture topics.

Course Length: Two Day

Who should Attend:

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

You will Learn:

- The essential W-CDMA Node B measurements including channel and code domain power, EVM, Noise floor, Peak Code Domain error, ACLR and frequency error
- How to make Over the Air (OTA) measurements such as Pilot Dominance, EVM, and Code Domain Power
- GSM and EDGE BTS measurements
- Basics of Line Sweeping
- Line Sweep Measurements, including Distance to Fault
- Spectrum Analyzer Measurements, including Power Density, Occupied Bandwidth, Channel Power, ACPR and Noise Floor
- Interference Analysis Tools: Spectrogram, Signal Strength, RSSI, and applications to Direction Finding and Interference Hunting
- Power Meter
- Two-Port Measurements of TMA Gain, Antenna Isolation and RX Diversity Balance
- Channel Scanner Measurements
- How to use Master Software Tools to download, save, and edit your important measurements as well as remote operation of the BTS Master

Prerequisites: None

Customizable Course: No

Course Content:

Introduction

Cable Analyzer (Line Sweep and 2 Port Measurements)

Spectrum Analysis

Lab 1: Spectrum Analyzer Familiarization, Functions, Settings, Advanced Measurements (Occupied Bandwidth, Resolution Bandwidth, Channel Power, ACPR, and FM Demodulation)

Power Measurements

Interference Analyzer (Spectrogram, Signal Strength, RSSI)

Channel Scanner Option

GSM Measurements

GPS Option

W-CDMA and HSDPA Basic Theory and Measurements