

# Microwave Line Sweep Principles Training Course

## Microwave Line Sweep Principles

Microwave Line Sweep Principles is a one-day course designed for users of the Site Master S810/S820 series of waveguide/cable and antenna analyzers.

- **Hands-on:** Learn by doing the task and not by watching. Much 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:** Register for a class on-line. Also, contact us directly at [us-training@anritsu.com](mailto:us-training@anritsu.com) to get specific details about class location or request a dedicated training session at your company site.
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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?

- Wireless Carriers
- Base Station OEMs
- Waveguide and coaxial cable installers
- Field Engineers
- Service Technicians
- Site Managers

## How You Will Benefit

- Understand the technical aspects of line sweeping
- Learn how to set up a line sweep measurement
- Understand the effects of waveguide length, type and system components on sweeps
- Understand the effect of sweep rates and frequencies
- Learn how to identify, locate, document and resolve cable line transmission faults



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# Yes! Sign up now for Microwave Line Sweep Principles Training Course...

## What You Get:

- Course Manual
- Certificate of Completion

## Course Fees (call for pricing):

Microwave Line Sweep Principles Course (at Anritsu specified location)

Microwave Line Sweep Principles Course (at your location)

## Course Outline (Day 1):

**Lecture 1:** Introduction to Line Sweeping

- What is a Line Sweep?
- What affects the Quality of your System and Line Sweeping?
- Different Methods of Line Sweeping
- Four Different Tests and What They Accomplish
- Comparison of Waveguide and Coaxial Cable

**Lecture 2:** Line Sweeping Fundamentals

- Information Needed to Conduct a Line Sweep
- Sweeping the Cable or Waveguide Assembly
- Sweeping the Antenna
- Calibration Components

**Lecture 3:** Line Sweeping Operations

- Instrument Calibration
- Operation
- Application
- Instrument Functions

**Lecture 4:** Sample Traces

- Return Loss
- Cable Loss
- Distance to Fault

**Lab 1:** Line Sweep and Troubleshooting Techniques

- Instrument Familiarization
- Line Sweep Setup
- Understand Insertion Loss, Return Loss and Distance-to-Fault Testing
- Antenna Measurements

**Lab 2:** Troubleshooting

- Diagnose Line Sweep Problems
- Interpret Results

**Certification Test**

For the most recent training schedule visit:  
[www.us.anritsu.com/training](http://www.us.anritsu.com/training)

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