



Agilent Cable Sweep Network Analyzer 8700 Series Training

Course Overview

Course Number: H7215X-100

Course Overview

This course is designed to provide theoretical fundamentals and demonstrations of practical network analysis measurements. This course covers the front panel operation of the Agilent 8700 series network analyzers, error correction model, types of calibrations, and time domain fundamentals. At the end of the class you will receive a Full and Pocket sized Certificate of Completion.

What you will learn

After completing this course you will be able to:

- Operate the Agilent 8714 series network analyzers
- Describe the principles of network analysis
- Identify the major sources of errors in microwave measurement
- Evaluate the impact of errors on measurement uncertainty
- Perform basic fault location using time domain
- Make practical measurement such as Return Loss, Insertion Loss, VSWR and Fault Location

Specifications

Course Type

User/application training

Audience

- Wireless Carriers
- Base Station OEMs
- Tower Companies
- Field Engineers
- Installers
- Site Managers
- Engineers and Technicians who use vector network analyzers

Prerequisites

Cable Sweeping Experience, RF fundamentals or equivalent knowledge

Course Length

1 day

Course Format

60% Lecture 40% Lab

Delivery Method

Scheduled (at Agilent training locations) or

Dedicated (at customer site)

To save you time and travel, many Agilent courses can be delivered at your site. You may choose to have Agilent provide the equipment, or save money by furnishing your own.

Detailed Course Agenda

- Network Analyzer Fundamentals
- Network analyzer block diagram
- S-parameter measurements
 - Return Loss, Insertion Loss, VSWR
- Amplitude, phase and group delay measurements
- Demonstration: Adapter considerations
- Error model
- Error Identification
- Calibration methods
- Practical calibration exercise
- Fault Location (Time Domain)



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