Course Overview

This course is designed to provide theoretical fundamentals and demonstrations of practical network analysis measurements. The course covers front-panel operation of Agilent 8753 and 872x series network analyzers, the error correction model, different types of calibrations and time domain fundamentals.

What you will learn

After completing this course, you will be able to

• Operate 87xx series network analyzers
• Describe the principles of network analysis
• Identify the major sources of errors in a microwave measurement and their impact on measurement uncertainty
• Evaluate measurement accuracy, perform basic fault location using time domain

Specifications

Audience
Engineers and technicians who are using vector network analyzers

Prerequisites
Test and Measurement Fundamentals Curriculum or equivalent

Course Length
1 day

Course Format
100% lecture

Delivery Method
To save you time and travel, this course is delivered at your site.

Detailed Course Agenda

• Network analyzer fundamentals
• Network analyzer block diagram
• S-parameter measurements
• Amplitude, phase, and group delay measurements
• Demonstration: adapter considerations
• Error model
• Error identification
• Calibration methods
• Practical calibration exercise
• Time domain
This course is part of Agilent Technologies' Accelerated Education RF and Microwave Fundamentals Curriculum. It is designed to quickly give you the expertise you need to solve measurement problems effectively and efficiently. The courses in these curricula are the same ones Agilent uses to train newly hired engineers and engineers who are changing jobs within the company. For a complete listing of available Accelerated Education curricula, go to www.agilent.com/find/accelerated_education.

Ordering Information
H7215B-170 Network Analysis Basics course, delivered on-site

For the latest information on class schedules and locations visit our website:
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