
RF Network Analyzer User Training

Technical Data

Course Overview

This dedicated course is designed to provide the basics of network analyzer measurements. It includes three modules which cover theoretical and practical fundamentals of network analysis, front panel operation, and error correction and calibration. The contents of this course can be flexible depending of the knowledge level of the class; any of the modules can be deleted and substituted with customer application topics.

Upon completion of these three standard modules, students should be able to define network analysis and explain how reflection and transmission measurements are made; describe the basic front panel operation of the HP 87XX*, identify the major sources of measurement error in an RF instrument; and perform the different types of measurement calibration.

In addition, upon completion of the optional Time Domain module, the student will be able to explain the differences between the two time domain modes; interpret the time domain information; recognize the making phenomenon; select the different windows for the measurement and explain the tradeoffs between them; apply gating to the time domain information; and, find the range and resolution of the measurement.

Course Features

- RF Overview module covers the fundamentals of network analysis.
- Device-specific Front Panel Overview module provides a quick introduction to the front panel and softkeys.
- Accuracy Enhancements module explains the what and why of error correction and the different types of calibrations.

Specifications

Course Length

1 day (an additional 1/2 day module is available)

Audience

Research and development engineers, production engineers, and technicians who will operate the HP 87XX* network analyzer.

Prerequisites

Student should be familiar with basic RF terminology, such as SWR, rho, and dB. Students are expected to provide their own network analyzer, calibration kits and cables. If using the HP 8751 or HP 8753, a test set or signal separation device needs to be provided.

Delivery Method

Dedicated

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Format

Course content is 70% lecture and 30% lab. Students will work in groups of no more than three on lab exercises using a HP 87XX* network analyzer, their test set or signal separation devices, test port cables, and their calibration kits.

Ordering Information

To order RF Network Analyzer User Training (H8700A+24Y) course in the U.S. call 1-800-HPCLASS (800-472-5277).

Outside the U.S., contact your nearest local HP sales office.

Classroom Training Benefits

Available at Your Site

Save travel expenses and time by organizing a dedicated delivery at your location to allow more staff personnel to attend courses.

Extensive Hands-on Practice

Learn how to use the full capabilities of your system through hands-on lab exercises.

Taught by Experienced HP Instructors

Learn from an experienced instructor familiar with HP products.

Comprehensive Student Materials

Copies of course materials are provided for future reference on the job.

*XX represent one of the following network analyzer:
HP 8719 HP 8720 HP 8751 HP 8752 HP 8753

Printed 5/97

Publication Number 5965-1327E