

Spectrum Analyser Fundamentals:

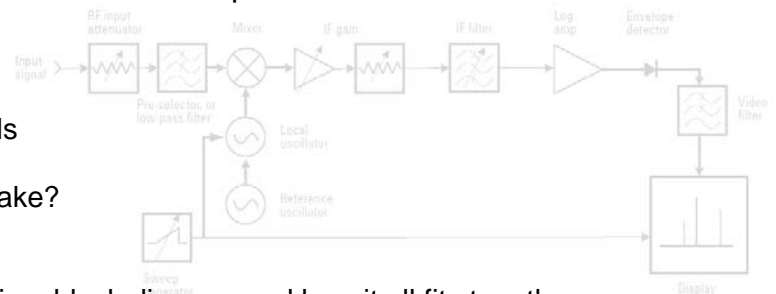


A half-day, in-depth course on the essential knowledge required to understand and use an RF spectrum analyser. This course is applicable to all makes and models of spectrum analyser, not just Keysight/Agilent/HP.

A broad range of RF measurement fundamentals are covered, as well as advanced topics, making it suitable for everyone from beginners to more experienced users.

Course Outline:

- Overview
 - RF measurement fundamentals
 - What is spectrum analysis?
 - What measurements do we make?
- Theory of Operation
 - Spectrum analyser hardware
 - Swept superheterodyned receiver block diagram and how it all fits together
- Spectrum analyser specifications – which are important and why?
- Advanced features – making your spectrum analyser more effective



We cover accuracy and resolution, spectrum analyser architecture, Boltzmann’s law, sensitivity, dynamic range, phase-noise, detector types, measuring analog and digitally modulated carriers, when not to use a spectrum analyser, and all the essentials for making high-quality RF measurements that you can be confident are accurate and correct.

Included:

- A printed set of course notes, pen and bottled water for each attendee
- Other refreshments are available directly from the lunchbar adjacent to our office
- Certificate of attendance

Prerequisites:

- Electronics training and basic RF knowledge