

RF & Microwave Fundamentals eLearning

Get the best education quickly from trusted experts

eLearning Overview

A complete and focused set of eLearning modules to help you find success with your Keysight investment at your pace.

What you will learn

Build a strong foundation in RF & microwave fundamentals. This includes learning about the most important measurements, critical success factors for ensuring accuracy, and how to get the most productivity and value from your Keysight instrument.

Who should attend

Engineers and technicians with busy schedules who work with advanced test.



Benefits

Get the most out of your Keysight instruments quickly, with the confidence your measurements are accurate and repeatable.

Complete duration

17 hours
(including exam)

Delivery method

State-of-the-art self-paced eLearning modules developed by Keysight experts.



eLearning	What you will learn	Duration
Cable and connector care (T6501A, opt. 200)	<ul style="list-style-type: none"> • How to use different types of connectors most effectively • How to inspect and maintain connectors to ensure accuracy and prevent duration damage • Apply the industry standard specifications for connectors 	2 hours
Transmission line fundamentals (T6501A, opt. 201)	<ul style="list-style-type: none"> • Concept of a transmission line versus a simple “hookup” • Relationship between reflections and impedance • Meaning of characteristic impedance • Calculations to move between VSWR, Return loss and reflection coefficient 	2 hours
General spectrum analysis (T6501A, opt. 202)	<ul style="list-style-type: none"> • Basic functionality of spectrum analyzers • How to use spectrum analyzers to their fullest potential • How to make more effective measurements for particular applications 	4 hours
Network analysis (T6501A, opt. 203)	<ul style="list-style-type: none"> • Basics of network analysis • How to use network analyzers to their fullest potential • How to make more effective measurements for particular applications 	4 hours
Signal generator sources (T6501A, opt. 204)	<ul style="list-style-type: none"> • Basics of amplitude modulation • Basics of frequency modulation • Basics of digital modulation 	2 hours
Power measurement basics (T6501A, opt. 205)	<ul style="list-style-type: none"> • Definition of the three basic types of power measurements and their importance • Power meter/sensor measurement methods • Two most prevalent sensor technologies • Advanced measurements techniques • Formulas to calculate power measurement uncertainty 	2 hours
Comprehensive exam (T6501A, opt. 900)	<ul style="list-style-type: none"> • Comprehensive test covering all modules 	1 hour
Program Package (T6501A, opt. 100)	<ul style="list-style-type: none"> • All six modules, as described above • Comprehensive exam • Program completion certificate 	17 hours

Next step

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