

5G NR Systems and Fundamentals eLearning Program

Get the best education quickly from trusted 5G experts

eLearning Program 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 and understanding of the 5G NR network, air interface, and signaling protocols to get the most productivity and value from Keysight 5G measurement solutions.

It is also helpful for all 5G engineers and technicians to understand 5G networks and how devices interact with the network. You will learn more about:

- Deployment modes and options, and Dual Connectivity
- Network architecture, including network nodes and their functions, as well as cloud-based network slicing
- Air interface from waveforms and frequencies, plus new improvements such as flexible numerology and beamforming
- Network protocols on layers 2 and 3, as well as security and mobility management

Who should attend?

5G wireless engineers, technicians, and engineering students who develop and test 5G-enabled chipsets, devices, and network elements, or deploy and operate 5G networks.

- A prior knowledge of LTE systems and air interface is preferred

Delivery method

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

5G NR Systems and Fundamentals eLearning Program

(T6600A-100 e-learning 5G NR Fundamentals Bundle - English)

eLearning Module	What you will learn	Duration	Price
5G System Evolution	<ul style="list-style-type: none">• Evolution of 5G• Introduction to 5G• 5G – LTE Comparison• Key Telecom Concepts in 5G	1 hour	-
5G Network Architecture and Functionality	<ul style="list-style-type: none">• SA and NSA Modes and Options• Network Architecture• Network Nodes• Dual Connectivity	1.5 hrs.	-
5G Air Interface	<ul style="list-style-type: none">• Multiple Access• Scalable Numerology• Frame Structure• Bandwidth Part• UL and DL Channels• Side Link Channels• Beamforming and MIMO• Initial Access and Power Control• Carrier Aggregation	3 hours	-
5G Protocols	<ul style="list-style-type: none">• MAC, RLC, and PDCP• SDAP and RRC• Mobility and Security	2 hours	-
Summary	<ul style="list-style-type: none">• The means to achieve the 5G objectives	0.5 hour	\$3500

Keysight Services helps you improve productivity and product quality with comprehensive service offerings.

www.keysight.com/find/services

One-stop shop for:

- Calibration
- Repair
- Asset Management
- Technology Refresh
- Consulting
- Training

Next Step

Sign up today.

www.keysight.com/find/EducationServices

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

