

5G NR Signaling Parameters and the Applications in UXM eLearning Program

Get the best education quickly from trusted 5G experts

eLearning Program Overview

We offer a robust set of eLearning modules to help you find success with your Keysight investment at your own pace.

What you will learn

Build a strong foundation in 5G NR signaling and get the most productivity and value from your Keysight UXM 5G instrument and 5G Network Emulation Solutions.

This course will help users of the E7515B UXM 5G gain a deep understanding of the 5G signaling process and ASN parameters used in the UXM 5G Test Application. It will also help non-UXM 5G engineers understand the 5G signaling process and how higher layer signaling assigns physical layer resources. You will learn:

- the complete 5G NR call flows for SA/NSA, mobility, and carrier aggregation
- the key signaling messages and ASN parameters involved in each of the sub-processes
- the signaling parameters that are involved during cell search (MIB/SIBs), RACH, RRC setup, and RRC reconfiguration
- use cases for UXM 5G pertaining to frequency settings and scheduling

Who should attend?

5G wireless engineers and technicians who work with advanced device test.

- Prior understanding of 5G Systems and NR Fundamentals is preferred
- Users of Keysight UXM 5G NR test applications or other Keysight Network Emulation Solutions are preferred

Delivery method

Self-paced eLearning modules developed by Keysight experts.

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(T6601A-100 e-learning 5G NR Signaling Bundle - English)

eLearning Module	What you will learn	Duration	Price
Introduction to 5G NR Call flows	<ul style="list-style-type: none"> Non-Standalone 5G NR call flow Standalone 5G NR call flow 5G Mobility and Carrier Aggregation Procedure 	1 hour	-
	<ul style="list-style-type: none"> Synchronization and System Information Broadcast 	1.5 hours	-
	<ul style="list-style-type: none"> Random Access Procedure 	1 hour	-
5G NR Signaling Parameters	<ul style="list-style-type: none"> RRC Setup and Reconfiguration in NSA Mode 	1 hour	-
	<ul style="list-style-type: none"> RRC Setup and Reconfiguration in SA Mode 	1 hour	-
	<ul style="list-style-type: none"> Radio Link Failure 	0.5 hour	-
Use Case Analysis - UXM 5G Test Application	<ul style="list-style-type: none"> Frequency settings NR scheduling 	1 hour	-
Program Package (T6601A, opt. 100)	<ul style="list-style-type: none"> All three modules, as described above 	7 hours	3,500

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