5G Core Network Signaling and Operations Part 2: SBA and NFV in 5G

5G_218d | On-Demand | 5G Core | Expanded
Course Duration: 4 hours

This is the second course in a six-course set of self-paced courses encompassing 5G Core Network Signaling and Operations. Fundamental to the 5G Core network is virtualization of the core network functions and employment of a service-based architecture. In this course, you will learn how the functions of the 5G Core network are virtualized to run on shared, off-the-shelf cloud infrastructure equipment as well as the producer/consumer of services approach is used for inter-process communications.

Intended Audience

5G Core Network engineering, operations, and performance related job functions

Objectives

After completing this course, the learner will be able to:

- Explain the role of Network Functions Virtualization (NFV) in 5G
- Describe the Service-Based Architecture (SBA) for the 5G Core network
- Explore the use of the HTTP/2 protocol for the service-based architecture

Course Prerequisites

5G Core Network Overview

Outline

1. 5G and Network Functions Virtualization
1.1 Virtualization: what and why?
1.2 5G and NFV
Exercise: 5G Core Interactive

2. Service-based architecture
2.1 5G network reference architecture
2.2 Service-based architecture
2.3 Network functions in SBA
2.4 HTTP/2 Primer
Exercise: Network Function Registration and Discovery

Assessment

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