



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

5G\_218d | On-Demand | 5G Core | ⚙️

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 NFVExercise: 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 PrimerExercise: Network Function Registration and Discovery
- Assessment