



5G Core Network Signaling and Operations Part 5: QoS in 5G

5G_221d | On-Demand | 5G Core | ⚙️

Course Duration: 4 hours

This is the fifth course in a six-course set of self-paced courses encompassing 5G Core Network Signaling and Operations! In this course, you will learn how Quality of Service (QoS) for user data flows is supported by the 5G Core Network. You will explore the signaling for establishing and enforcing QoS and the roles of the Policy Control Function (PCF) and the Network Exposure Function (NEF) in QoS setup and operations.

Intended Audience

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

Objectives

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

- Describe Quality of Service in a 5G network
- Explain how QoS flows are established and enforced
- Summarize the key QoS parameters in 5G

Course Prerequisites

[5G Core Network Overview](#)

Outline

1. 5G Quality of Service (QoS)
 - 1.1 What is 5G QoS?
 - 1.2 Establishing and enforcing QoS
 - 1.3 5QI QoS characteristicsExercise: 5G QoS parameters
 2. QoS Signaling Operations
 - 2.1 PDU sessions and network slices
 - 2.2 Reflective QoS
 - 2.3 Policy control, network exposure functions
 3. Exploring the Signaling
 - 3.1 Wireshark configuration
 - 3.2 5G QoS HTTP/2 log-based analysisExercise: Evaluating 5G QoS logs
- Assessment