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

5G_221d | On-Demand | 5G Core | Expanded
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 is 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 characteristics
Exercise: 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 analysis
Exercise: Evaluating 5G QoS logs

Assessment