



5G Core Network Signaling and Operations Part 3: UE Registration in 5G

5G_219d | On-Demand | 5G Core | ⚙️

Course Duration: 4 hours

This is the third course in a six-course set of self-paced courses encompassing 5G Core Network Signaling and Operations! In this course, you will gain an in-depth understanding of the key 5G Core Network operations relating to registration, authentication, and security setup for a UE. You will also learn about UE identifiers used in 5G, UE states relating to registration, PDU connections and radio resource control, and a detailed discussion of the related signaling for registering a UE with the 5G core network.

Intended Audience

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

Objectives

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

- Describe the procedures for UE registration and authentication in 5G
- Explain the UE states relating to registration, PDU sessions, and RRC connections
- List the UE identifiers used in the 5G network

Course Prerequisites

[5G Core Network Overview](#)

Outline

1. UE Identifiers and UE States
 - 1.1 5G Identifiers
 - 1.2 UE States
2. UE Registration and Authentication
 - 2.1 UE Registration in 5G
 - 2.2 Authentication and Security in 5G
 - 2.3 End-to-end registration flow
 - 2.4 Equipment Identity check signaling

Exercise: UE Registration signaling
Exercise: Authentication and Security signaling
Exercise: Authentication and Security signaling
3. Exploring the signaling
 - 3.1 Mastering registration signaling

Exercise: 5G Registration

Assessment