5G Intermobility | 2 Hr. 50 Min.

LEARNING OBJECTIVE:

Upon completing the course, the participant will be able to:

- Understand in Brief about the 5G Roaming Scenarios and Architecture.
- Understand the UE States relate to registration management and connection management
- Dig deep into the Intermobility scenarios
- Understand how the Interworking takes place between 5G and EPC and non 3GPP access
- Examine the Specific cases

COURSE OBJECTIVE:

This Course covers the Different interworking Procedures in 5G wherein we will discuss about the working with EPC, non 3GPP access networks. We will also look into the roaming scenarios and the network functions responsible for it. We will also understand the UE mobility in connected mode with and without Xn interface. We will also see how SMS is sent over NAS.

WHO SHOULD ATTEND:

This course is designed to provide a in-depth knowledge about the 5G procedures so telecommunications professionals, network professionals and others who plan to work and gain knowledge in 5G wireless network can come on board.

TARGET AUDIENCE:

RF Engineers, 5G Planners and Optimizers

INSTRUCTIONAL METHODS:

Lectures in Classroom, Virtual Classroom trainings, discussion, Questions & Answers. All participants will also receive comprehensive course materials.

COURSE OUTLINE:

1. 5G Interworking

1.1 Architecture model and Concepts

1.2 5G System Architecture

1.3 5G Service Based Architecture

1.4 5G Local breakout Roaming scenario

1.5 5G Home Routed Roaming Scenario

1.6 Roaming Interfaces

1.7 Home Routed Call Flow

1.8 Data storage Architecture

1.9 5G Deployment Options

1.10 Technical Comparison Between 5G NSA

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and SA

2. Interworking

2.1 4G – 5G Interworking

2.2 RAN Level Interworking

2.3 Core level Interworking

2.4 Interworking with EPC

2.5 Inter working with EPC with N26 Interface

2.6 Inter working with EPC without N26 Interface

2.7 Interworking with WLAN

3. UE States

3.1 Registration and connection management

3.2 RM state Model in AMF

3.3 5GS Connection management states

3.4 CM-idle

3.5 CM-Connected State

3.6 CM- Connected state with RRC Inactive State

4. Idle Mode Mobility Procedure

4.1 5GS to EPS idle mode Mobility with N26 Interface

4.2 EPS to 5G idle mode Mobility with N26 Interface

4.3 UL Power Control

5. Connected Mode Mobility Procedure

5.1 Mobility

5.2 Handover Procedure

5.3 Xn Based Inter NG-RAN Handover

5.4 Inter NG-RAN Node N2 Based Handover (w/o Xn)

5.5 Handover Cancel Phase

6. NR Specific Services

6.1 SMS over NAS

6.2 Emergency services

Evaluation and feedback of the participants

Maximum number of participants:	15
Duration:	2 Hr. 50 Min.