



VoNR Technical Training

Description

Unlock the full potential of 5G with our comprehensive VoNR (Voice over New Radio) Technical Training. This expert-led course is designed for telecom professionals who are eager to dive deep into the cutting-edge world of 5G voice technologies. Over 8 intensive hours, you'll explore the intricacies of VoNR, from its foundational architecture to the latest innovations in 5G calling services.

Duration : 8 hours

Content of the Training:

Module 1 : VoNR deployment challenges and architecture

1. Evolution to Vo5G
2. VoNR drivers and deployment challenges
3. VoNR Standardization
4. VoNR High-Level Architecture

Module 2 : 5G Voice Solutions in NSA and SA

1. 5G Voice solutions options
2. CSFB, VoLTE, RAT Fallback, EPS Fallback, VoNR
3. 5G Fallback and Handover
4. Key consideration and 5G solution recommendation
5. VoLTE is a prerequisite for SA Launch
6. Technical Comparison Between VoNR and EPS Fallback

Module 3 : IMS Architecture and protocols

1. IMS Architecture
2. Key IMS Requirements for VoNR
3. IMS Control Plane Protocols
4. IMS User Plane Protocols
5. P-CSCF, I-CSCF S-CSCF
6. VoNR Application Servers

Module 4 : 5G voice identifiers, SIP and 5G voice codecs

1. IMS identifiers
2. SIP Protocol
3. Diameter Base Protocol
4. 5G Voice codecs

Module 5 : IMS Registration procedure

1. SA VoNR/EPS Fallback Registration Procedure
2. IMS Registration process and messages
3. IMS Registration call flow
4. IMS SIP procedure
5. SIP messages with traces

Module 6 : VoNR Signalling procedure

1. Basic VoNR Procedure
2. EPS FB Signaling Procedure and Call flows
3. VoNR to VoLTE Handover procedure
4. VoNR Signaling Procedure and Call flows

Module 7 : 5G New Calling service

1. 5G New calling
2. Evolution of 3GPP Standards
3. New calling services and features
4. New calling technology
5. New nodes to support New calling service
6. GSMA Evolution