



5G Fixed Wireless Access training

Deep dive into 5G for Fixed Wireless Access (FWA), showcasing its potential to extend wireless connectivity to presently unlinked regions or serve as a viable alternative to conventional broadband and cable technologies. The course elucidates FWA terminology and architecture by highlighting the functionalities associated with Customer Premises Equipment (CPE), offering insights into both Outdoor FWA and Indoor FWA configurations. Additionally, the training comprehensively covers essential radio spectrum elements and explores specific features within 4G and 5G designed to enhance the performance and connectivity of FWA devices.

Audience

Knowledge on 5G

Content of the Training: 7 hours duration

Module 1) 5G Fixed Wireless Access Introduction

- 5G Fixed Wireless Access Introduction
- Indoor and Outdoor CPE
- Advantages and Disadvantages of FWA
- 5G FWA Drivers
- Migration from Mobile to FWA
- 5G FWA Dimensioning
- Importance of Fair Usage policy in FWA

Module 2) 5G FWA market offers and spectrum challenges

- 5G FWA market
- 5G FWA Monetization strategies
- 5G FWA offers in countries
- 5G FWA spectrum
- 4G and 5G coexistence in TDD and 5G

Module 3) 5G FWA end to end Architecture

- Benefits of 3GPP for FWA
- Key components of FWA
- 5G FWA indoor and outdoor architecture
- 5G end to end Architecture for FWA
- 5G FWA PDU Session Establishment
- 5G FWA QoS

- 5G FWA Slicing

Module 4) 5G FWA Capacity and performance

- Improving CPE Performance
- Massive MIMO, Beamforming, modulation
- 5G CPE Position
- 5G CPE MIMO
- 5G CPE Power
- FWA depriorization feature
- 5G FWA capacity dimensioning

Module 5) 5G CPE and device management

- 5G CPE Technical requirement
- 5G CPE Device Management
- 5G FWA Voice
- Indoor and outdoor DNN configuration
- 5G CPE cell lock

Module 6) 5G FWA mmwave

- 5G mmW FWA market positioning
- 5G mmW coverage
- 5G mmW CPEs
- 5G mmW FWA Trial result