

# 5G EXECUTIVE TRAINING PROGRAM

Mobile technologies:  
5G and IoT

## ABOUT THE 5G EXECUTIVE TRAINING PROGRAM

The 5G Executive Training Program in Mobile technologies, 4G, 5G and IoT is aimed at professionals wishing to have an executive view on those technologies, on their use cases and their future developments. We will cover mobile spectrum valuation, Network cost modeling and deep dive into specific use cases explaining how 5G and IoT can overcome existing challenges. We will finish by highlighting the importance of 5G security and describing innovative technologies beyond 5G.

## TARGET AUDIENCE

The Executive training program is targeted for professionals, engineers, managers, senior managers, directors and CxO levels

CONTACT US

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[WWW.5GWORLDPRO.COM](http://www.5gworldpro.com)



# PROGRAM CHAPTERS

## CHAPTER 1 : PRINCIPLES OF 5G NETWORKS

- 4G Evolution
- Introduction to 5G Networks
- 5G Spectrum and Frequency Bands
- 5G New technologies : Massive MIMO, Beamforming, DSS
- 3GPP position with 5G
- 5G Electromagnetic field impact on Health
- 5G Market updates

## CHAPTER 2 : 5G NETWORK ARCHITECTURE AND IMPLEMENTATION

- Interface Radio NR
- Architecture of 5G Access Networks
- 5G deployment options
- 5G Quality of services
- 5G core network architecture
- What is Network Slicing ( 3GPP, NGMN, 5G PPP)
- Benefits of Network slicing

## CHAPTER 3 : 5G IOT AND APPLICATION

- Definition of IoT networks
- IoT technologies : NB-IoT, LTE-M, and LoRa
- IoT platform and IoT architecture
- Description of IoT use cases
- Evolution of IoT technologies to 5G

## CHAPTER 4 : NETWORK COST MODELING

- Calculation methodology
- Gbytes cost for operator IN €/GB
- Minute cost for operator cts €/min
- Benchmark between different operators in the world

## CHAPTER 5 : VALORIZATION OF 5G SPECTRUM

- Spectrum auction
- Spectrum valuation
- Cost / benefit analysis of spectrum attribution scenarios
- Benchmark of 5G Spectrum attribution
- Practical valorization use case

## CHAPTER 6 : 5G PRIVATE NETWORK AND USE CASES

- 5G Business Models and Monetization
- Co-innovation between verticals
- 5G Private network drivers
- Importance of Mobile edge computing
- 5G Use case for factories and Industry 4.0
- 5G Use case for Mine 4.0
- 5G Use case for agriculture

## CHAPTER 7 : 5G SECURITY AND BEYOND 5G

- Why 5G security is important in 5G technology
- 5G security enhancements for industry
- 5G Open RAN and applications
- 5G and Satellite
- Road to 6G

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# Biography of Trainer and additional information

## BIOGRAPHY OF MOHAMED IDRISSE



- Mohamed Idrissi is a passionate 5G expert, 5G Trainer and the CTO of 5GWorldPro, a telecommunication company that has independent, and deep knowledge of multi-vendor implementations.
- Mohamed is leading 5GWorldpro to provide customers 5G Training and Consulting services and help them efficiently optimise their network to deliver unmatched customer experience, they have already provided thousands of 5G Training courses to many particulars and professionals over the past years.
- Mohamed has an extensive background experience in telecommunications having worked with top industry players from both vendor and operator side, he was recently recognized as one of 100 influential voices in 5G from Onalytica's report.

## ADDITIONAL INFORMATION

- Teaching mode : Part time one week per month over 4 months
- Duration : 20 jours (120 heures)
- Rythme : Part-time
- Langue : French / English

