

NEXT GENERATION WIRELESS NETWORKS

“Master Emerging Wireless Technologies to Drive High-Performance, Scalable Networks.”

Schedule

Venue (InHouse)	Fees
At Your Organization Premises	Ask For The Quotation

► Available delivery methods: In-House Training

Introduction

The evolution of wireless networks—from LTE to 5G and beyond—is redefining connectivity, communication, and digital services worldwide. This course provides participants with a comprehensive understanding of next-generation wireless technologies, network architectures, and deployment strategies.

Through hands-on exercises, real-world case studies, and interactive simulations, participants will develop the skills to plan, implement, and optimize high-performance wireless networks, ensuring reliable and scalable connectivity in modern digital environments.

Objectives

- By the end of this course, participants will be able to:
- Understand the principles and evolution of next-generation wireless networks.
 - Analyze wireless network architectures and protocols, including LTE, 5G, and emerging technologies.
 - Design and deploy high-capacity, low-latency wireless networks.
 - Optimize wireless network performance and troubleshoot issues effectively.
 - Apply QoS, spectrum management, and interference mitigation techniques.
 - Integrate advanced wireless solutions to support IoT, smart cities, and enterprise networks.

Why Attend

Wireless technology is critical to the digital transformation of businesses and societies. This training equips telecom engineers, IT professionals, and network planners with the knowledge and practical skills to deploy, optimize, and manage next-generation wireless networks, ensuring future-ready infrastructure.

Target Audience

This course is suitable for:

- Telecom engineers and wireless network professionals
- IT and infrastructure specialists in mobile broadband services
- Network planners and system integrators
- Technical managers overseeing wireless network projects
- Professionals seeking advanced knowledge of LTE, 5G, and future wireless networks

Individual Benefits

- Gain in-depth knowledge of next-generation wireless technologies.
- Develop practical skills in network design, deployment, and optimization.
- Enhance ability to troubleshoot and maintain high-performance wireless networks.
- Increase professional value and career growth opportunities in telecom and IT sectors.
- Build confidence in handling advanced wireless network projects.

Organizational Benefits

- Deploy reliable, high-capacity, and scalable wireless networks.
- Improve service quality, coverage, and network efficiency.
- Reduce operational challenges and network downtime.
- Strengthen internal expertise in LTE, 5G, and emerging wireless technologies.
- Support digital transformation initiatives with robust wireless infrastructure.

Instructional Methodology

- Instructor-led interactive sessions and workshops
- Hands-on labs and network simulations
- Real-world case studies of next-generation network deployments
- Group discussions and problem-solving exercises
- Continuous feedback, Q&A sessions, and capstone project

Course Outline

- Module 1: Evolution of Wireless Networks – 2G to 5G and Beyond
- Module 2: LTE Network Architecture and Fundamentals
- Module 3: 5G Network Design, Architecture, and Use Cases
- Module 4: Spectrum Management, Frequency Planning, and Interference Mitigation
- Module 5: QoS, Latency, and Throughput Optimization Techniques
- Module 6: Network Deployment Strategies and Best Practices
- Module 7: Wireless Network Monitoring, Analysis, and Troubleshooting
- Module 8: Integration with IoT, Smart Cities, and Enterprise Applications
- Module 9: Case Studies—Real-World Next-Generation Wireless Deployments
- Module 10: Capstone Exercise – Designing a Next-Generation Wireless Network

Certification

Upon successful completion, participants will receive a Certificate in Next Generation Wireless Networks, validating their expertise in designing, deploying, and optimizing LTE, 5G, and future wireless technologies for enterprise and telecom applications.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
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- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: +601116373203	EMAIL: info@mawaevents.net
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