WiFi 6E Course

31 May – 4 June 2027
London (UK)

UK Traininig
PARTNER



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Introduction

The WiFi 6E course is designed to provide IT professionals, network engineers, and system designers with a deep understanding of the latest WiFi 6E technology, its capabilities, best deployment practices, and associated challenges. The course covers the extended 6 GHz frequency band, new technical specifications, and how to optimize network speed, latency, and connectivity in modern wireless networks.

Course Objectives

By the end of this course, participants will be able to:

- Understand the technical fundamentals of WiFi 6E and the 6 GHz spectrum.
- Identify the benefits and limitations of WiFi 6E compared to previous versions.
- Plan, design, and deploy WiFi 6E networks in enterprises and public environments.
- Troubleshoot performance and interference issues in WiFi 6E networks.
- Integrate WiFi 6E with existing wireless infrastructure and IoT devices.

Course Modules

Day 1: Introduction to WiFi 6E and the 6 GHz Spectrum

- Evolution of WiFi from version 5 to 6 and 6E.
- Overview of the 6 GHz spectrum and global regulatory requirements.
- Key technical features: OFDMA, MU-MIMO, TWT, 1024-QAM.
- Case Study: WiFi 6E deployment in a university campus.

Day 2: WiFi 6E Engineering and Devices

- WiFi 6E access points and client devices.
- Antenna design and spatial streams to enhance performance.
- Integration with wired networks and security protocols.
- Practical: Configuring WiFi 6E access points.



Day 3: Planning and Deploying WiFi 6E Networks

- Site survey techniques for the 6 GHz spectrum.
- Spectrum analysis and channel planning to reduce interference.
- Capacity planning and performance optimization.
- Case Study: Challenges of deploying WiFi 6E in a high-density sports stadium.

Day 4: Troubleshooting and Security

- Common WiFi 6E network issues and diagnostic methods.
- Security enhancements, including WPA3 in WiFi 6E.
- Managing interference with legacy devices and neighboring networks.
- **Workshop: Troubleshooting scenarios.**

Day 5: Future Trends and Integration

- Overview of WiFi 7 and coexistence with WiFi 6E.
- IoT and smart city applications using WiFi 6E.
- Managing WiFi 6E using cloud tools and AI.
- Action plan for adopting WiFi 6E in your organization.

Why Attend This Course: Wins & Losses!

- Gain expertise in the latest WiFi 6E technologies.
- Improve network speed, reliability, and security.
- Stay ahead of trends in wireless networking.
- Minimize downtime through effective troubleshooting.
- Enhance user experience in high-demand environments.

Conclusion

This course is essential for network engineers and IT professionals looking to master WiFi 6E technology and prepare their networks for future demands. Through hands-on applications, you will learn to design, deploy, and maintain WiFi 6E networks efficiently.
Register now and become a certified WiFi 6E expert!

