

## WiFi 6E Course

*Düsseldorf (Germany)*

*9 - 13 March 2026*

UK Traininig

# PARTNER



## WiFi 6E Course

Code: IT28 From: 9 - 13 March 2026 City: Düsseldorf (Germany) Fees: 4900 Pound

### 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!





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