

WiFi 6E Course

Barcelona (Spain)

8 - 12 December 2025

UK Traininig

PARTNER



WiFi 6E Course

Code: IT28 From: 8 - 12 December 2025 City: Barcelona (Spain) Fees: 5100 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!



Blackbird Training Cities

Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



Manchester (UK)



Milan (Italy)



Blackbird Training Cities

USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

ASIA



Baku (Azerbaijan)
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut



Blackbird Training Cities

AFRICA



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



MANNAI Trading
Company WLL,
Qatar



Alumina Corporation
Guinea



Booking.com
Netherlands



Oxfam GB International
Organization,
Yemen



Capital Markets
Authority,
Kuwait



Waltersmith Petroman Oil Limited
Nigeria



Qatar National Bank
(QNB),
Qatar



Qatar Foundation,
Qatar



AFRICAN UNION ADVISORY
BOARD ON CORRUPTION,
Tanzania



KFAS
Kuwait



Reserve Bank of
Malawi,
Malawi



Central Bank of Nigeria
Nigeria



Ministry of Interior,
KSA



Mabruk Oil Company
Libya



Saudi Electricity
Company,
KSA



BADAN PENGELOLA
KEUANGAN Haji,
Indonesia



NATO
Italy



ENI CORPORATE
UNIVERSITY,
Italy



Gulf Bank
Kuwait



Defence Space Administration
Nigeria



National Industries
Group (Holding),
Kuwait



Hamad Medical
Corporation,
Qatar



USAID
Pakistan



STC Solutions,
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS
UN.



Authority for

UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Entertainment & Leisure
Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Elevation

Technical Courses

Artificial Intelligence (AI)
Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



 International House 185 Tower Bridge
Road London SE1 2UF United Kingdom

 +44 7401 1773 35
+44 7480 775526

 Sales@blackbird-training.com

 www.blackbird-training.com

