

Advanced professional course in Network

*London (UK)*

*24 - 28 November 2025*

UK Training

**PARTNER**



## Advanced professional course in Network

Code: IT28 From: 24 - 28 November 2025 City: London (UK) Fees: 5100 Pound

### Introduction

In today's digital age, designing computer networks is crucial for organizations to achieve their business objectives efficiently and securely. The ability to create robust, scalable, and innovative network architectures is a key skill required to meet the evolving demands of modern enterprises. This advanced network design course is specifically designed to provide participants with cutting-edge methodologies, technologies, and best practices in network architecture. Combining theoretical learning with hands-on exercises, participants will acquire the expertise to design state-of-the-art networks that align with organizational goals and drive digital transformation.

### Course Objectives

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

- Understand key principles, methodologies, and frameworks for network design.
- Develop advanced skills to assess organizational needs, analyze network traffic patterns, and design scalable and resilient network architectures.
- Explore emerging technologies like cloud computing, software-defined networking SDN, virtualization, and the Internet of Things IoT, and their role in modern network design.
- Optimize network performance, security, and reliability by selecting and integrating appropriate networking technologies and protocols.
- Create detailed network design documentation, including diagrams, topology maps, and configuration guidelines.
- Gain proficiency in network design best practices, standards, and compliance requirements, including regulatory and data privacy considerations.
- Obtain practical experience using network design tools, simulation software, and real-world case studies.
- Prepare for professional certifications such as Cisco Certified Design Associate CCDA or Cisco Certified Design Professional CCDP.

### Course Outlines

#### Day 1: Introduction to Network Design Principles

- Overview of network design methodologies and frameworks.
- Understanding organizational requirements and aligning them with business goals.
- Principles for creating scalable, resilient, and secure network architectures.

#### Day 2: Assessing Organizational Requirements

- Conducting needs analysis and gathering detailed requirements.
- Identifying critical applications and services essential for business operations.

- Evaluating network performance, capacity, and availability needs.

### Day 3: Analyzing Network Traffic Patterns

- Techniques and tools for effective traffic analysis.
- Predictive modeling to plan for future network capacity.
- Identifying bottlenecks and optimizing network performance.

### Day 4: Designing Campus and Data Center Networks

- Best practices for designing campus networks.
- Traditional vs. cloud-native data center network architectures.
- Integrating virtualization and cloud technologies into network designs.

### Day 5: Designing Wide Area Networks WAN and Security

- Principles and key considerations for WAN design.
- Selecting the right WAN connectivity options.
- Implementing security protocols and Quality of Service QoS for WAN optimization.
- Hands-on lab exercises to troubleshoot and apply design principles.

### Why Attend This Course? Wins & Losses!

- Learn the best practices in network design and security management.
- Gain advanced skills to analyze and optimize network performance.
- Prepare for professional certifications like CCDA and CCDP.
- Apply theoretical concepts through practical exercises and real-world case studies.

### Conclusion

This advanced network design course offers professional training in network architecture and security management, equipping participants with the skills to ensure network efficiency and security in today's enterprises.

Enroll now to enhance your expertise in network administration, network security, and network design, and take your IT career to the next level.





# 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)



Salzburg (Austria)



Florence (Italy)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



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)  
(Kuwait)



Phuket (Thailand)



Shanghai (China)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City



Seoul (South Korea)



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



General Organization for  
Social Insurance  
KSA



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](mailto:Sales@blackbird-training.com)



[www.blackbird-training.com](http://www.blackbird-training.com)

UK Training

**PARTNER**

