**BLACKBIRD**
FOR TRAINING

Advanced professional course in Network

*Rome (Italy)*

*3 - 7 November 2025*

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# Advanced professional course in Network

Code:  IT28  From:  3 - 7 November 2025  City:  Rome (Italy)  Fees:  4900  Pound

## Introduction

In today's digital age, designing computer networks is essential for enabling organizations to achieve their business objectives efficiently and securely. The ability to craft robust, scalable, and innovative network architectures is crucial for meeting the ever-evolving demands of modern enterprises. This advanced network design course is tailored to equip participants with the latest methodologies, technologies, and best practices in network architecture. Through a blend of theoretical learning and hands-on exercises, participants will gain the expertise needed to design cutting-edge networks that align with organizational goals and drive digital transformation.

## Course Objectives

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

- Develop a comprehensive understanding of network design principles, methodologies, and frameworks.
- Acquire advanced skills in assessing organizational needs, analyzing network traffic patterns, and designing scalable and resilient network architectures.
- Explore emerging networking technologies and trends, such as cloud computing, software-defined networking SDN, network virtualization, and the Internet of Things IoT, and their applications in network design.
- Enhance proficiency in selecting and integrating networking technologies and protocols to optimize network performance, security, and reliability.
- Create detailed network design documentation, including network diagrams, topology maps, and configuration guidelines.
- Strengthen knowledge of network design best practices, standards, and compliance requirements, including considerations for regulatory compliance and data privacy.
- Gain practical experience with network design tools, simulation software, and real-world case studies to reinforce theoretical concepts and practical skills.
- Prepare for professional certifications in network design, such as Cisco Certified Design Associate CCDA or Cisco Certified Design Professional CCDP, through comprehensive coverage of exam topics and practice tests.

## Course Outlines

### Day 1: Introduction to Network Design Principles

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

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## Day 2: Assessing Organizational Requirements

- Conducting needs analysis and gathering requirements.
- Identifying business-critical applications and services.
- Evaluating network performance, capacity, and availability needs.

## Day 3: Analyzing Network Traffic Patterns

- Techniques and tools for traffic analysis.
- Predictive modeling for network capacity planning.
- Identifying bottlenecks and optimizing network performance.

## Day 4: Designing Campus and Data Center Networks

- Considerations and best practices for campus network design.
- Data center network architectures: traditional vs. cloud-native.
- Integrating virtualization and cloud technologies in network design.

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

- Principles and technologies for WAN design.
- Selecting appropriate WAN connectivity options.
- Implementing security and Quality of Service QoS in WANs.
- Hands-on lab exercises and case studies to apply design principles and troubleshoot issues.

### Conclusion

This course provides advanced professional training in network design and network security management, covering all critical aspects to ensure optimal network efficiency and security in modern enterprises. Enroll now and start enhancing your skills in network administration, network architecture, and network security to excel in the IT field.

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