

## Network Management

*Barcelona (Spain)*

*1 - 5 December 2025*

UK Traininig

# PARTNER



# Network Management

Code: IT28 From: 1 - 5 December 2025 City: Barcelona (Spain) Fees: 5100 Pound

## Introduction

Network Management is a critical discipline involving the administration, operation, and maintenance of network systems to ensure optimal performance, reliability, and security. This course provides a comprehensive understanding of the principles, protocols, and tools essential for effective network management. Participants will gain practical knowledge to apply best practices in areas such as fault management, configuration, accounting, performance, and security within the well-known FCAPS framework.

## Course Objectives

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

- Understand the fundamental concepts and architecture of network management.
- Identify and implement the five key functional areas of network management: Fault Management, Configuration Management, Accounting Management, Performance Management, and Security Management FCAPS.
- Utilize industry-standard protocols such as SNMP Simple Network Management Protocol and NetFlow for monitoring and managing networks.
- Apply best practices for configuring and managing network devices, including routers, switches, and firewalls.
- Leverage tools and techniques for network performance optimization and troubleshooting.
- Understand the role of Software-Defined Networking SDN and virtualization in modern network management.

## Course Outlines

### Day 1: Introduction to Network Management

- Overview of Networking Concepts and Architectures
- The OSI Model and TCP/IP Protocol Suite
- Introduction to Network Management Systems NMS
- The FCAPS Model: Fault, Configuration, Accounting, Performance, and Security Management

### Day 2: Fault and Configuration Management

- Fault Management: Detection, Isolation, and Resolution
- Configuration Management: Device Configuration and Change Management
- Practical Exercise: Configuring SNMP on Network Devices

### Day 3: Performance and Accounting Management



- Performance Management: Monitoring and Analysis Techniques
- Tools for Performance Measurement and Optimization
- Accounting Management: Usage Monitoring and Reporting

#### Day 4: Security Management and Advanced Topics

- Security Management: Threat Detection and Response
- Network Security Protocols and Best Practices
- Introduction to Software-Defined Networking SDN
- Virtualization in Network Management

#### Day 5: Practical Applications and Case Studies

- Case Studies on Network Management Challenges and Solutions
- Emerging Trends in Network Management Technologies

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

- Gain hands-on skills and knowledge in network management.
- Learn to apply the FCAPS framework for simplified network operations.
- Master the use of cutting-edge tools and protocols like SNMP and NetFlow.
- Develop the ability to troubleshoot and optimize network performance efficiently.
- Stay ahead with insights into modern technologies like SDN and virtualization.

#### Conclusion

This course is a unique opportunity for network professionals to enhance their skills and deepen their understanding of modern network management practices. By combining theoretical insights with practical applications, participants will be well-equipped to tackle current and future challenges in this ever-evolving field.

Don't miss out! join us and take your expertise in network management to the next level!



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