

PROGRAMMA CompTIA Network + (N10-008)

40 ore

Part I: Networking Fundamentals

- Compare and contrast the Open Systems Interconnection (OSI) model layers and encapsulation concepts
- Explain the characteristics of network topologies and network types
- Summarize the types of cables and connectors and explain which is the appropriate type for a solution
- Given a scenario, configure a subnet and use appropriate IP addressing schemes
- Explain common ports and protocols, their application, and encrypted alternatives
- Explain the use and purpose of network services
- Explain basic corporate and datacenter network architecture
- Summarize cloud concepts and connectivity options

Parts II: Network Implementations

- Compare and contrast various devices, their features, and their appropriate placement on the network
- Compare and contrast routing technologies and bandwidth management concepts

- Given a scenario, configure and deploy common Ethernet switching features
- Given a scenario, install and configure the appropriate wireless standards and technologies

Parts III: Network Operations

- Given a scenario, use the appropriate statistics and sensors to ensure network availability
- Explain the purpose of organizational documents and policies
- Explain high availability and disaster recovery concepts and summarize which is the best solution

Parts IV: Network Security

- Explain common security concepts
- Compare and contrast common types of attacks
- Given a scenario, apply network hardening techniques
- Compare and contrast remote access methods and security implications
- Explain the importance of physical security

Parts V: Network Troubleshooting

- Explain the network troubleshooting methodology
- Given a scenario, troubleshoot common cable connectivity issues and select the appropriate tools

- Given a scenario, use the appropriate network software tools and commands
- Given a scenario, troubleshoot common wireless connectivity issues
- Given a scenario, troubleshoot general networking issues