**PROGRAMMA CompTIA Network + (N10-009)**

**40 ore**

## Part I: Networking Concepts

- Explain concepts related to the Open Systems Interconnection (OSI) reference model
- Compare and contrast networking appliances, applications, and functions
- Summarize cloud concepts and connectivity options
- Explain common networking ports, protocols, services, and traffic types
- Compare and contrast transmission media and transceivers
- Compare and contrast network topologies, architectures, and types
- Given a scenario, use appropriate IPv4 network addressing
- Summarize evolving use cases for modern network environments

## Parts II: Network Implementations

- Explain characteristics of routing technologies
- Given a scenario, configure switching technologies and features

- Given a scenario, select and configure wireless devices and technologies
- Explain important factors of physical installations

**Parts III: Network Operations**

- Explain the purpose of organizational processes and procedures
- Given a scenario, use network monitoring technologies
- Explain disaster recovery (DR) concepts
- Given a scenario, implement IPv4 and IPv6 network services
- Compare and contrast network access and management methods

**Parts IV: Network Security**

- Explain the importance of basic network security concepts
- Summarize various types of attacks and their impact to the network
- Given a scenario, apply network security features, defense techniques, and solutions

**Parts V: Network Troubleshooting**

- Explain the network troubleshooting methodology
- Given a scenario, troubleshoot common cabling and physical interface issues.

- Given a scenario, troubleshoot common issues with network services
- Given a scenario, troubleshoot common performance issues
- Given a scenario, use the appropriate tool or protocol to solve networking issues