**Document Generated: 12/18/2025**

**Learning Style: On Demand**

**Technology:**

**Difficulty: Beginner**

**Course Duration: 30 Hours**

# Networking and Security Fundamentals

**About the course:**

A well-designed network policy has to be developed to create a secure network. The network policy defines the company's concept of an appropriate device, network use, and network incident management initiatives. This course is specifically intended for Fundamentals of Networking and Security which are covered under CompTIA Security and CompTIA Network+.

**Course Objective:**

· Explain the fundamental knowledge of Networking

· Work with TCP/IP

· Understanding of Wide Area Networks

· Understanding of Network Devices

· Understanding of Remote Access

· Understanding of Network Security

· Explain Network Standards and Network Communications

· Identify Security Fundamentals

· How to analyze risk

· Identify security threats

· Performing security assessment

· Implement network, host and software security

· Manage access and identity

· Implement operational security

**Audience:**

The course of Network Security Fundamentals is intended for anyone seeking to develop their aptitude and build a profession in the network and information security.

**Prerequisites:**

There is no prerequisite in this course.

## Course Outline:

- Networking Introduction
- Chapter 01: Introduction to Networking
- Chapter 02: Network Standards
- Chapter 03: Network Communications
- Chapter 04: Working with TCP/IP
- Chapter 05: Network Devices
- Chapter 06: Wide Area Networks
- Chapter 07: Remote Access
- Chapter 08: Network Security
- Security Fundamentals
- Chapter 01: Identifying Security Fundamentals
- Chapter 02: Analyzing Risk
- Chapter 03: Identifying Security Threats
- Chapter 04: Conducting Security Assessments
- Chapter 05: Implementing Host and Software Security
- Chapter 06: Implementing Network Security
- Chapter 07: Managing Identity and Access
- Chapter 08: Implementing Cryptography
- Chapter 09: Implementing Operational Security
- Chapter 10: Addressing Security Issues
- Chapter 11: Ensuring Business Continuity
- Course Summary