

## CCNA Essentials Course

*Barcelona (Spain)*

*9 - 13 June 2025*

UK Traininig

# PARTNER



## CCNA Essentials Course

Code: IT28 From: 9 - 13 June 2025 City: Barcelona (Spain) Fees: 5100 Pound

### Introduction

The "Networking Fundamentals" course provides comprehensive training in networking, aimed at equipping participants with essential knowledge and skills for designing and managing modern networks. The course is delivered over five days, focusing on core concepts in networking, routing, switching, network security, wireless networking, and automation.

### Objectives:

- Understand basic networking concepts and manage IP addressing and subnetting.
- Learn routing principles and related protocols.
- Gain practical knowledge of switching and VLAN configuration.
- Understand basic network security principles and apply security measures.
- Explore wireless networking technologies and basic automation, and apply them.

### Course outlines

#### Day 1: Networking Fundamentals & IP Addressing

- **Networking Basics:**
  - Network types and topologies
  - OSI and TCP/IP models
- **IP Addressing:**
  - IPv4/IPv6 formats
  - Subnetting basics
- **Hands-On:**
  - Configure IP addresses
  - Subnetting exercises

#### Day 2: Routing Basics

- **Routing Concepts:**
  - Static vs. dynamic routing
- **Routing Protocols:**
  - Basics of RIPv2 and OSPF
- **Hands-On:**
  - Configure static routes
  - Set up RIPv2 and OSPF

#### Day 3: Switching Fundamentals



- **Switching Basics:**
  - Role and operation of switches
- **VLANs:**
  - VLAN configuration and trunking
- **Hands-On:**
  - Configure VLANs and trunking

#### Day 4: Network Security

- **Security Fundamentals:**
  - Common threats and security measures
- **Access Control Lists ACLs:**
  - Basic ACL configuration
- **Hands-On:**
  - Configure ACLs and basic security settings

#### Day 5: Wireless Networking & Automation

- **Wireless Basics:**
  - Wireless standards and configuration
- **Network Automation:**
  - Overview and benefits of automation
- **Hands-On:**
  - Configure wireless settings
  - Introduction to network automation tools



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