BLACKBIRD FOR TRAINING

CCNA Essentials Course

Düsseldorf (Germany)

13 - 17 October 2025

UK Traininig

PARTNER

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CCNA Essentials Course

Code: IT28 From: 13 - 17 October 2025 City: Düsseldorf (Germany) Fees: 4900 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

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- 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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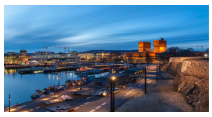
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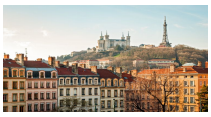
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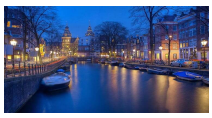
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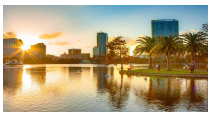
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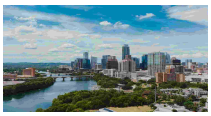
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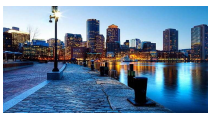
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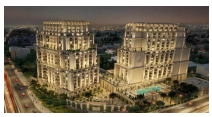
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