BLACKBIRD FOR TRAINING

CCNA Essentials Course

18 – 22 October 2027
Düsseldorf (Germany)



CCNA Essentials Course

Ref: 3254500_159382 **Date:** 18 – 22 October 2027 **Location:** Düsseldorf (Germany) **Fees:** 5900 GBP

Introduction

The "Networking Fundamentals" course provides comprehensive training in networking, designed to equip participants with the essential knowledge and skills needed to design and manage modern networks. This course covers key networking concepts, routing, switching, network security, wireless networking, and network automation. It aims to provide participants with a strong foundation to implement and maintain efficient, secure, and scalable networks.

Course Objectives

By the end of this course, participants will be able to:

- Understand basic networking concepts and manage IP addressing and subnetting.
- Learn routing principles and work with RIP and OSPF protocols.
- Gain hands-on experience in switching and VLAN configuration.
- Understand the fundamentals of network security and apply essential security measures.
- Explore wireless networking technologies and implement network automation.

Course Outlines

Day 1: Networking Fundamentals & IP Addressing

- Networking Basics: Types of networks and network topologies.
- OSI and TCP/IP Models: Understanding the layers and how data flows.
- IP Addressing: IPv4/IPv6 formats, and basics of subnetting.
- Hands-On: Configure IP addresses and practice subnetting exercises.

Day 2: Routing Basics

- Routing Concepts: Static vs. dynamic routing.
- Routing Protocols: Introduction to RIP v2 and OSPF.
- Hands-On: Configure static routes and set up RIP v2 and OSPF.



Day 3: Switching Fundamentals

- Switching Basics: Role of switches in network operation.
- VLANs: Configuring VLANs and trunking.
- Hands-On: Set up VLANs and trunking for network segmentation.

Day 4: Network Security

- Security Fundamentals: Common threats and security measures.
- Access Control Lists ACLs: Basic configuration of ACLs.
- Hands-On: Configure ACLs and implement basic security measures.

Day 5: Wireless Networking & Automation

- Wireless Basics: Wireless standards and configurations.
- Network Automation: Overview of automation tools and their benefits.
- Hands-On: Configure wireless network settings and explore network automation tools.

Why Attend This Course: Wins & Losses!

- Hands-On Skills: The course offers practical, hands-on training that enables you to manage and troubleshoot real-world networks.
- Comprehensive Coverage: It covers essential networking topics, from IP addressing to security and network automation, ensuring a well-rounded understanding of networking.
- Career Opportunities: This course equips you with in-demand skills, improving your chances of securing a position in the growing networking field.
- Practical Training: With a focus on real-world applications, you will gain experience in configuring networks, setting up security measures, and managing wireless networks.

Conclusion

The "Networking Fundamentals" course is the ideal choice for beginners and professionals who want to enhance their knowledge and skills in networking. Upon completion, participants will be proficient in designing, managing, and securing networks using best practices. They will gain hands-on experience with routing, switching, network security, wireless technologies, and network automation, ensuring they can manage real-world network environments effectively.

By taking this course, you will develop the necessary skills to build, maintain, and secure networks, ensuring you're prepared for success in the evolving IT landscape.

