

## CCNA Discovery - Introducing Routing and Switching in the Enterprise v4.0 - Structura cursului (Course Outline)

**Cerinte preliminare:** CCNA Discovery - Working at a Small-to-Medium Business or ISP

Chapter 1. Networking in the Enterprise

Chapter 2. Exploring the Enterprise Network Infrastructure

Chapter 3. Switching in an Enterprise Network

Chapter 4. Addressing in an Enterprise Network

Chapter 5. Routing with a Distance Vector Protocol

Chapter 6. Routing with a Link-State Protocol

Chapter 7. Implementing Enterprise WAN Links

Chapter 8. Filtering Traffic Using Access Control Lists

Chapter 9. Troubleshooting an Enterprise Network

Chapter 10. Course Summary

### Chapter 1. Networking in the Enterprise

1.0 Chapter Introduction

1.1 Describing the Enterprise Network

1.2 Identifying Enterprise Applications

1.3 Supporting Remote Workers

1.4 Chapter Summary

### Chapter 2. Exploring the Enterprise Network Infrastructure

2.0 Chapter Introduction

2.1 Describing the Current Network

2.2 Supporting the Enterprise Edge

2.3 Reviewing Routing and Switching

2.4 Chapter Summary

### **Chapter 3. Switching in an Enterprise Network**

- 3.0 Chapter Introduction
- 3.1 Describing Enterprise Level Switching
- 3.2 Preventing Switching Loops
- 3.3 Configuring VLANs
- 3.4 Trunking and Inter-VLAN Routing
- 3.5 Maintaining VLANs on an Enterprise Network
- 3.6 Chapter Summary

### **Chapter 4. Addressing in an Enterprise Network**

- 4.0 Chapter Introduction
- 4.1 Using a Hierarchical IP Network Address Scheme
- 4.2 Using VLSM
- 4.3 Using Classless Routing and CIDR
- 4.4 Using NAT and PAT
- 4.5 Chapter Summary

### **Chapter 5. Routing with a Distance Vector Protocol**

- 5.0 Chapter Introduction
- 5.1 Managing Enterprise Networks
- 5.2 Routing Using the RIP Protocol
- 5.3 Routing Using the EIGRP Protocol
- 5.4 Implementing EIGRP
- 5.5 Chapter Summary

### **Chapter 6. Routing with a Link-State Protocol**

- 6.0 Chapter Introduction
- 6.1 Routing Using the OSPF Protocol
- 6.2 Implementing Single-Area OSPF
- 6.3 Using Multiple Routing Protocols
- 6.4 Chapter Summary

**Chapter 7. Implementing Enterprise WAN Links**

- 7.0 Chapter Introduction
- 7.1 Connecting the Enterprise WAN
- 7.2 Comparing Common WAN Encapsulations
- 7.3 Using Frame Relay
- 7.4 Chapter Summary

**Chapter 8. Filtering Traffic Using Access Control Lists**

- 8.0 Chapter Introduction
- 8.1 Using Access Control Lists
- 8.2 Using a Wildcard Mask
- 8.3 Configuring Access Control Lists
- 8.4 Permitting and Denying Specific Types of Traffic
- 8.5 Filtering Traffic Using Access Control Lists
- 8.6 Chapter Summary

**Chapter 9. Troubleshooting an Enterprise Network**

- 9.0 Chapter Introduction
- 9.1 Understanding the Impact of Network Failure
- 9.2 Troubleshooting Switching and Connectivity Issues
- 9.3 Troubleshooting Routing Issues
- 9.4 Troubleshooting WAN Configurations
- 9.5 Troubleshooting ACL Issues
- 9.6 Chapter Summary

**Chapter 10. Course Summary**

- 10.0 Putting It All Together