



Cisco Certified Network Professional Bootcamp - SÆRPRIS!

Varighed: 10 Days Kursus Kode: CCNPFT

Beskrivelse:

This is a 10 day intensive course designed to provide delegates with the knowledge and skills required to acquire their CCNP certification.

Målgruppe:

Individuals who need to fast-track their CCNP Certification.

Agenda:

- After you complete this course you will be able to:
- Plan and document the configuration and verification of routing protocols and their optimization in enterprise networks.
- Identify the technologies, components, and metrics of EIGRP used to implement and verify EIGRP routing in diverse, large-scale internetworks based on requirements.
- Identify, analyze, and match OSPF multiarea routing functions and benefits for routing efficiencies in network operations in order to implement and verify OSPF routing in a complex enterprise network
- Implement and verify a redistribution solution in a multi-protocol network that uses Cisco IOS features to control path selection and provides a loop-free topology according to a given network design and requirements
- Evaluate common network performance issues and identify the tools needed to provide Layer 3 path control that uses Cisco IOS features to control the path
- Implement and verify a Layer 3 solution using BGP to connect an enterprise network to a service provider
- Analyze campus network designs
- Implement VLANs in a network campus
- Implement spanning tree
- Implement inter-VLAN routing in a campus network
- Implement a highly available network

- Implement high-availability technologies and techniques using multilayer switches in a campus environment
- Implement security features in a switched network
- Integrate WLANs into a campus network
- Accommodate voice and video in campus networks
- Plan and document the most commonly performed maintenance functions in complex enterprise networks
- Develop a troubleshooting process to identify and resolve problems in complex enterprise networks
- Select tools that best support specific troubleshooting and maintenance processes in large, complex enterprise networks
- Practice maintenance procedures and fault resolution in switching-based environments
- Practice maintenance procedures and fault resolution in routing-based environments
- Practice maintenance procedures and fault resolution in a secure infrastructure
- Troubleshoot and maintain integrated, complex enterprise networks

Forudsætninger:

Attendees should meet the following prerequisites:

Completed and Passed CCNA, ICND1 and ICND2 or CCNABC

Test og certificering

Recommended preparation for exam (s):

- ROUTE
- SWITCH
- TSHOOT

Yderligere Kurser:

The following courses are recommended for delegates looking to broaden their knowledge on routing and switching or gain additional certification.

- IP6FD
- MPLS
- QOS CIERS1
- CIERS2

Indhold:

Day 1

- CCNP Bootcamp Course Introduction
- SWITCH Lesson 1-1 Enterprise Campus
 Architecture
- SWITCH Lesson 1-2 Cisco lifecycle
 Services and Network Implementation
- SWITCH Lab 1-1: New Hire Test
- SWITCH Lesson 1-3 Lab 1-1 Debrief
- SWITCH Lesson 2-1 Applying Best Practices for VLAN Topologies
- SWITCH Lesson 2-2 Configuring Private VLANs
- SWITCH Lesson 2-3 Configuring Link Aggregation with EtherChannel
- SWITCH Lab 2-1 Design and Implement VLANs, Trunks and EtherChannel
- SWITCH Lesson 2-4 Lab 2-1 Debrief
- SWITCH Lab 2-2 Troubleshoot Common VLAN Configuration and Security Issues
- SWITCH Lesson 2-5 Lab 2-2 Debrief
- SWITCH Lab 2-3 Implementing Private VLANs
- SWITCH Lesson 2-6 Lab 2-3 Debrief

Day 2

- SWITCH Lesson 3-1 Spanning Tree Protocol Enhancements
- SWITCH Lesson 3-2 Describing STP Stability Mechanisms
- SWITCH Lab 3-1 Implement Multiple Spanning Tree
- SWITCH Lesson 3-3 Lab 3-1 Debrief
- SWITCH Lab 3-2 Implement PVRST+
- SWITCH Lesson 3-4 Lab 3-2 Debrief
- SWITCH Lab 3-3 Troubleshoot Spanning tree Issues
- SWITCH Lesson 3-5 Lab 3-3 Debrief
- SWITCH Lesson 4-1 Describing Routing Between VLANs
- SWITCH Lesson 4-2 Deploying Multilayer Switching with CEF
- SWITCH Lab 4-1 Implementing inter-VLAN Routing
- SWITCH Lesson 4-3 Lab 4-1 Debrief
- SWITCH Lab 4-2 Troubleshoot Inter-VLAN
- SWITCH Lesson 4-4 Lab 4-2 Debrief
- SWITCH Lesson 5-1 Understanding High Availability
- SWITCH Lesson 5-2 Implementing High Availability
- SWITCH Lesson 5-3 Implementing Network Monitoring
- SWITCH Lab 5-1 Implement High Availability and Reporting in Network Design
- SWITCH Lesson 5-4 Lab 5-1 Debrief

Day 3

- SWITCH Lesson 6-1 Configuring Layer 3 Redundancy with HSRP
- SWITCH Lab 6-1 Implement and Tune

Day 5

- ROUTE Lesson 3-1 Planning Routing Implementations with OSPF as Scalable Routing Protocol
- ROUTE Lesson 3-2 How OSPF Packet Processes Work
- ROUTE Lesson 3-3 Improving Routing Performance in a Complex Enterprise Network
- ROUTE Lesson 3-4 Configuring and Verifying OSPF Routing
- ROUTE Lab 3-1 Configure and Verify
 OSPF to Improve Routing Performance
- ROUTE Lesson 3-5 Lab 3-1 Debrief
- ROUTE Lab 3-2 Implement and Verify OSPF Multiarea Routing
- ROUTE Lesson 3-6 Lab 3-2 Debrief
- ROUTE Lesson 3-7 Configuring and Verifying OSPF Route Summarization
- ROUTE Lab 3-3 Configure and Verify OSPF Route Summarization
- ROUTE Lesson 3-8 Lab 3-3 Debrief

Day 6

- ROUTE Lesson 3-9 Configuring and Verifying OSPF Special Area Types
- ROUTE Lab 3-4 Configure and Verify OSPF Special Area Types
- ROUTE Lesson 3-10 Lab 3-4 Debrief
- ROUTE Lesson 3-11 Configuring and Verifying OSPF Authentication
- ROUTE Lab 3-5 Configure and Verify OSPF Authentication
- ROUTE Lesson 3-12 Lab 3-5 Debrief
- ROUTE Lesson 4-1 Assessing Network
 Routing Performance and Security Issues
- ROUTE Lesson 4-2 Operating a Network
 Using Multiple IP Routing Protocols
- ROUTE Lesson 4-3 Configuring and Verifying Route Redistribution
- ROUTE Lab 4-1 Configure Route Redistribution Between Multiple IP Routing Protocols
- ROUTE Lesson 4-4 Lab 4-1 Debrief
- ROUTE Lesson 5-1 Assessing Path Control Network Performance Issues
- ROUTE Lab 5-1 Configure and Verify Path Control Between Multiple IP Routing Protocols
- ROUTE Lesson 5-2 Lab 5-1 Debrief

Day 7

- ROUTE Lesson 6-1 Planning the Enterprise-to-ISP Connection
- ROUTE Lesson 6-2 Considering the Advantages of Using BGP
- ROUTE Lesson 6-3 Comparing the Functions and Uses of EBGP and IBGP
- ROUTE Lesson 6-4 Configuring and Verifying Basic BGP Operations
- ROUTE Lab 6-1 Configure BGP

Day 9

- TSHOOT Lesson 5-1 Troubleshooting Network Layer Connectivity
- TSHOOT Lesson 5-2 Troubleshooting EIGRP
- TSHOOT Lab 5-1 Layer 3 Connectivity and EIGRP
- TSHOOT Lesson 5-3 Lab 5-1 Debrief
- TSHOOT Lesson 5-4 Troubleshooting OSPF
- TSHOOT Lab 5-2 OSPF and Route Redistribution (OSPF part)
- TSHOOT Lesson 5-5 Troubleshooting Route Redistribution
- TSHOOT Lab 5-2 OSPF and Route Redistribution (Redistribution Part)
- TSHOOT Lesson 5-6 Lab 5-2 Debrief
- TSHOOT Lesson 5-7 Troubleshooting BGP
- TSHOOT Lab 5-3 Border Gateway Protocol
- TSHOOT Lesson 5-8 Lab 5-3 Debrief
- TSHOOT Lesson 5-9 Troubleshooting
 Performance Problems on Routers
- TSHOOT Lab 5-4 Router Performance
- TSHOOT Lesson 5-10 Lab 5-4 Debrief

Day 10

- TSHOOT Lesson 6-1 Troubleshooting Security Features
- TSHOOT Lab 6-1 Introduction to Network Security
- TSHOOT Lesson 6-2 Lab 6-1 Debrief
- TSHOOT Lesson 6-3 Security Features
 Review
- TSHOOT Lab 6-2 Cisco IOS Security Features
- TSHOOT Lesson 6-4 Lab 6-2 Debrief
- TSHOOT Lesson 7-1 Troubleshooting Complex Environments
- TSHOOT Lab 7-1 Troubleshooting Complex Environments
- TSHOOT Lab 7-2 Lab 7-1 Debrief

HSRP

- SWITCH Lesson 6-3 Lab 6-1 Debrief
- SWITCH Lesson 6-2 Configuring Layer 3 Redundancy with VRRP and GLBP
- SWITCH Lab 6-2 Implement VRRP
- SWITCH Lesson 6-4 Lab 6-2 Debrief
- SWITCH Lesson 7-1 Understanding Switch Security Issues
- SWITCH Lesson 7-2 Protecting Against VLAN Attacks
- SWITCH Lesson 7-3 Protecting Against Spoofing Attacks
- SWITCH Lesson 7-4 Securing Network Services
- SWITCH Lab 7-1 Secure Network Switches to Mitigate Security Attacks
- SWITCH Lesson 7-5 Lab 7-1 Debrief
- SWITCH Lesson 8-1 Planning for Support of Voice in a Campus Network
- SWITCH Lesson 8-2 Integrating and Verifying VoIP in a Campus Infrastructure
- SWITCH Lesson 8-3 Working with Specialists to Accommodate Voice and Video on Campus Switches
- SWITCH Lab 8-1 Plan Implementation and Verification od VOIP in a Campus Network
- SWITCH Lesson 8-4 Lab 8-1 Debrief
- SWITCH Lesson 9-1 Comparing WLANs with Campus Networks
- SWITCH Lesson 9-2 Assessing the Impact of WLANs on Campus Networks
- SWITCH Lesson 9-3 Preparing the Campus Infrastructure for WLANs
- SWITCH Lab 9-1 Integrate Wireless in the Campus
- SWITCH Lesson 9-4 Lab 9-1 Debrief

Day 4

- ROUTE Lesson 2-1 Planning Routing Implementations with EIGRP
- ROUTE Lesson 2-2 Implementing and Verifying Basic EIGRP for the Enterprise LAN Architecture
- ROUTE Lab 2-1 Configure and Verify EIGRP Operations
- ROUTE Lesson 2-3 Lab 2-1 Debrief
- ROUTE Lesson 2-4 Configuring and Verifying EIGRP for the Enterprise WAN Architecture
- ROUTE Lab 2-2 Configure and Verify
 EIGRP Circuit Emulation and Frame Relay
 Operations
- ROUTE Lesson 2-5 Lab 2-2 Debrief
- ROUTE Lesson 2-6 Implementing and Verifying EIGRP Authentication
- ROUTE Lab 2-3 Configure and Verify EIGRP Authentication
- ROUTE Lesson 2-7 Lab 2-7 Debrief
- ROUTE Lesson 2-8 Advanced EIGRP Features in an Enterprise Network
- ROUTE Lab 2-4 Troubleshoot and Verify EIGRP Operations
- ROUTE Lesson 2-9 Lab 2-4 Debrief

- Operations
- ROUTE Lesson 6-5 Lab 6-1 Debrief
- ROUTE Lesson 6-6 Using the BGP Attributes and Path Selection Process
- ROUTE Lab 6-2 Manipulate EBGP Path Selections
- ROUTE Lesson 6-7 Lab 6-2 Debrief
- TSHOOT Lesson 1-1 Applying Maintenance Methodologies
- TSHOOT Lesson 1-2 Common Maintenance processes and Procedures
- TSHOOT Lesson 1-3 Network
 Maintenance Tools, Applications, and Resources
- TSHOOT Lesson 2-3 planning and Implementing Troubleshooting Procedures
- TSHOOT Lesson 2-4 Integrating Troubleshooting into the Network Maintenance Process
- TSHOOT Lab 1-1 Lab Access
- TSHOOT Lab 2-1 Introduction to Troubleshooting

Day 8

- TSHOOT Lesson 3-1 Assembling a basic Diagnostic Toolkit Using Cisco IOS
- TSHOOT Lesson 3-2 Using Specialized Maintenance and Troubleshooting Tools
- TSHOOT Lab 3-1 Maintenance and Troubleshooting Tools
- TSHOOT Lesson 3-3 Lab 3-1 Debrief
- TSHOOT Lesson 4-1 Troubleshooting VLANs
- TSHOOT Lesson 4-2 Troubleshooting Spanning Tree
- TSHOOT Lab 4-1 Layer 2 connectivity and Spanning Tree
- TSHOOT Lesson 4-3 Lab 4-1 Debrief
- TSHOOT Lesson 4-4 Troubleshooting Switched Virtual Interfaces and Inter VLAN Routing
- TSHOOT Lesson 4-5 Troubleshooting FHRPs
- TSHOOT Lab 4-2 Layer 3 Switching and First-Hop Redundancy
- TSHOOT Lesson 4-6 Lab 4-2 Debrief
- TSHOOT Lesson 4-7 Troubleshooting Performance Problems on Switches

CCNPFT

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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