Train Signal - Cisco CCNA ICND2 640-816 Training

Nearly 17 hours of expert instruction with real world examples of Cisco Networking, help you achieve the second half of the new CCNA exams (640-816 ICND2). You will be tested on such topics as VLSM and IPv6 addressing; extending switched networks with VLANs; configuring, verifying and troubleshooting VLANs; the VTP, RSTP, OSPF and EIGRP protocols; determining IP routes; managing IP traffic with access lists; NAT and DHCP; establishing point-to-point connections; and establishing Frame Relay connections. Acquiring your CCNA certification can be challenging. Cisco recognizes this and has responded with a 2-step solution. By essentially splitting the CCNA into 2 exams (CCENT & ICND2), you can give your brain a break and achieve your goals at your own pace. This course focuses on complete coverage of the 640-816 ICND2 exam. Introduction to ICND2 - Videos Introduction - Instructor's Introduction - Exam Types REVIEW FROM CCENT - Video 3 **Switching** To refresh and review on these two important subjects, and to master the fundamentals before moving on to the second half of the training. This is especially important if you are taking the CCNA in two parts, because this section will help you review before going into the more advanced topics. - Repeaters, Hubs and Bridges - Building the MAC Table - "Flood, Filter or Forward?" - Frame Processing Methods - Virtual LANs - Cisco Three-Layer Switching Model - Introduction to STP - Basic Switch Security - Port Security Defaults, Options and Configurations REVIEW FROM CCENT - Video 9 **Binary Math and Subnetting** - "The Secret" (Of Binary Success, That Is) - Decimal > Binary, Binary > Decimal - Subnetting Basics - Calculating Number of Valid Subnets - Prefix Notification - Calculating Number of Valid Hosts - Calculating Number of Valid IP Addresses in a Given Subnet - Calculating the Subnet Number of a Given IP Address - Meeting Stated Design Requirements Video 1 **Switching II** - STP - Root Bridges, Root Ports, and Designated Ports - STP Timers and Port States - Portfast - VLANs and Trunking - Access and Trunk Port Comparison - VTP - "Router on a Stick" - RSTP and PVST - Etherchannels Video 2 **PTP WAN Links, HDLC, PPP, and Frame Relay** This will help you when working on real production networks. All topics are shown configured on live equipment. Frame Relay is a major topic on the exam and in the real world. - HDLC vs. PPP - PPP Features - PAP and CHAP - Frame Relay Introduction - Frame Relay LMI Theory - Frame Relay Configs, DLCIs, Frame Maps, and Inverse ARP - Frame Sub-Interfaces3 - Split Horizon - Frame Relay LMI Show, Debug, and Lab - FECN, BECN, DE bits - PVC Status Meanings Video 3 **Static Routing and RIP** Expand on from CCENT Video, for advanced topics found on ICND2. - Static Routing Theory and Configuration - Distance Vector Protocol Behavior - Split Horizon and Route Poisoning - RIP Theory and Version Differences - The Joy of "show ip protocols" - RIP Limitations - RIP Timers - Floating Static Routes Video 4 **OSPF** OSPF is an Internet protocol. In this Video you will look at types and how to configure on a live network. Experience with OSPF is necessary for the CCNA, for the real world, and to build upon for CCNP & CCIE. - Link State Routing Protocol Concepts and Basics - The DR and BDR - Hello Packets - Troubleshooting Adjacency Issues - Hub-and-Spoke NBMA OSPF Networks - Broadcast Networks - The OSPF RID - OSPF Router Types - Advantages of OSPF - Point-to-Point OSPF Networks - Default-Information Originate (always?) - OSPF Authentication Video 5 **EIGRP** Learn the theory and practice with labs to learn this hybrid routing protocol which has increased operational efficiency from it predecessor. Learn the capabilities and attributes. - Introduction to EIGRP - Successors and Feasible Successors - EIGRP vs. RIPv2 - Basic Configuration - Wildcard Masks - Load Sharing (Equal and Unequal-cost) - EIGRP, RIPv2, and Autosummarization - Passive vs. Active Routes Video 6 **IP Version 6 and NAT** Learn the basic theory and routing protocol. You will need to know the basics for the CCNA exam and for working with networks. IP Version 6 is everywhere and becoming more prevalent, so understanding this material is vital for future success. - IPv6 Theory and Introduction - Zero Compression and Leading Zero Compression - IPv6 Reserved Addresses - The Autoconfiguration Process - OSPF v3 Basics - Transition Strategies - NAT Theory and Introduction - Static NAT Configuration - Dynamic NAT Configuration - PAT Configuration Video 7 **VPNs and IPSec** Learn terminology & definitions for the exam. - Definitions and Tunneling Protocols - Data Encryption Technologies - Key Encryption Schemes - IPSec, AH and ESP - A VPN in Your Web Browser Video 8 **ACLs and Route Summarization** Learn to configure and control ACLs to get them to do what you want for the exam and in the real world. Learn the basic breakdown and how to summarize routes. Learn common commands for working with RIP & EIGRP. - ACL Login and the Implicit Deny - Standard ACLs and Remarks - "Host" and "Any" - The Order of the Lines - Extended ACLs - Named ACLs - Telnet Access, Placing ACLs, and Blocking Pings - Dynamic and Time-Based ACLs - Port Number Review - Route Summarization with RIP and EIGRP **Download [This hidden password content is only available for our VIP member. Become VIP Member NOW**