

CISCO ACRC ADVANCED



Cisco ACRC with Gary M. Crothers

B & Cs ACRC course provides the heart of the Cisco knowledge set - the most important body of knowledge necessary to becoming a competent Cisco professional. Expert Gary Crothers uses a hardware intensive Cisco lab to guide you through the ACRC core technologies. The concepts and commands in this training will prepare you for ACRC certification and enable you to configure Cisco routers for scalable operation in multiprotocol internetworks.

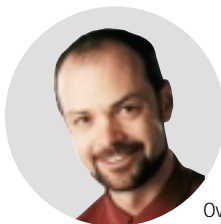
Includes: 7 Sessions

Video **\$795**

#560159

CD-ROM **\$995**

#560238



GARY CROTHERS

Gary Crothers is a Cisco Certified Internetwork Expert (CCIE), Cisco Certified Network Associate (CCNA), Cisco Certified Solutions Instructor, and a Cisco Certified Sales Instructor.

Over the past 17 years, Gary has provided computer and internetworking consulting services for over a dozen major corporations including Cisco Systems, Hughes Aircraft and Southwestern Bell. He currently teaches and develops technology and technology marketing courses at Cisco Worldwide Training Headquarters in San Jose, California.

SESSION 1

- Section A: Network Design
- Network Requirements
 - Internetwork Design & Topologies
 - Hierarchical Model Layers
 - Core, Distribution & Access Layers
 - Design Trends & Concepts
 - Scalability Considerations
 - Application & User Requirements
 - Business Requirements
 - Estimating Network Traffic
 - Needs & Budget Approval Process
 - Routing & Switching Devices

- Section B: Campus Design
- Campus Networks & Requirements
 - Campus Issues
 - Trends & Solutions
 - Old-Style Collapsed backbone
 - Layer-2 Switching & Benefits
 - Farm, FDDI, & Ethernet Updates
 - Cisco Platforms

- Section C: WAN
- Definition Issues & Concerns
 - Requirements
 - Connection Types, Solutions & Trends
 - Encapsulation Types
 - Dedicated WAN & Frame Relay
 - Cisco Platforms

- Section D: Network Availability
- Requirements, Solutions & Other Paths
 - HSRP & Redundant Loops
 - Design Issues
 - Redundant vs. Mesh
 - Partial Mesh Topology Power Reliability
 - Fault-tolerant Media & Backup Hardware
 - Hardware

- Section E: IP Addressing
- Rules
 - Subnetting & Summarization
 - VLSM & Discontiguous IP Subnets
 - Multinetting
 - Private Addressing & IP Unnumbered

Total Time: 111 Minutes

- This Video \$159**
#560169
 This CD-ROM \$189
#560248

SESSION 2

- Section A: Routing
- Overview
 - Building Routing Tables
 - Computing Metrics
 - Load Sharing & Balancing
 - Routing Rules
 - Routing Protocols
 - Intra-domain Routing
 - Static & Default Routes
 - Convergence
 - Split Horizon & Route Loops
 - Gateway Service & Proxy ARP
 - Router & Gateway Discovery

- Section B: OSPF vs. RIP
- Distance Vector Protocols
 - RIP
 - Link State Protocol
 - OSPF

- Section C: OSPF Architecture
- Overview
 - DR & DBR Elections
 - OSPF Terms & Link State Database
 - Packet Forwarding
 - Link Types & Link State Advertising (LSA)

- Section D: OSPF
- Types of Areas
 - Sub Areas
 - Totally Stubby Areas
 - Virtual Links
 - Misc. Terms & Design Guidelines
 - Frame Relay Topologies
 - OSPF Lab

- Section E: OSPF Neighbor Configuration
- Configuring & Verifying OSPF Routing
 - Configuring & Verifying Neighbor Statements
 - Subnet & Point to Point Set Up
 - Neighbor Negotiations
 - OSPF Priority Command

Total Time: 98 Minutes

- This Video \$159**
#560179
 This CD-ROM \$189
#560258

SESSION 3

- Section A: Designing and Tuning a Area
- Loopback Addresses
 - Set Up OSPF Neighbors
 - OSPF Timers
 - SPF Timers
 - Bandwidth Costing
 - Manual Cost Assignments

- Section B:
Summarize IP Addresses in OSPF
- Overview
 - Summarize Class B Subnet
 - Summarize Class C Supernet

- Section C: OSPF & RIP
- Overview
 - RIP Routing
 - Redistribute RIP through OSPF
- Section D:
OSPF Stubby/ Totally Stubby Areas
- Setting Stub Area
 - Totally Stubby Areas

- Section E: Virtual Links
- Configuring Virtual Links
 - Configure Receiving End of Virtual Link

- Section F: OSPF Show Command
- Overview
 - Show IP Commands

- Section G: EIGRP
- Overview
 - IPX & Appletalk Support
 - Router to Router Communications
 - Advanced Distance-vector Tables

- Section H: EIGRP for IP
- DUAL Overview
 - Building EIGRP Routing Processes
 - Redistribution between EIGRP & OSPF
 - Redistribute OSPF Routes into EIGRP
 - Auto-summary & Summary-address
 - Verifying EIGRP IP Operations

Total Time: 101 Minutes

- This Video \$159**
#560189
 This CD-ROM \$189
#560268

1.541.878.8505

CISCO ACRC ADVANCED (Cont'd)

SESSION 4

- Section A: Static Routing
- Controlling Routing Updates
 - Set Up IGRP Routing
 - IGRP Updates
 - Static Routes
 - Edit Static Routes
 - Add Default Routes

- Section B: Default Routing
- Lab Overview
 - Configure Default in IGRP
 - Default Routing Review

- Section C: Route Update Filters
- Overview
 - Default Route Overview

- Section D: Redistributing Static Routes
- Lab Overview
 - Add, Verify & Redistribute Static Routes
 - TRACERT

- Section E: Filtering Redistributed Routes
- Creating & Applying an Outbound Access List
 - Redistributing Routes Review
 - Redistribution Consideration
 - Precedence of Route Filters

- Section F: Administrative Distance
- Overview
 - Lab Overview
 - Determining Current Route Path
 - Modifying Administrative Distances

- Section G: Tuning Redistribution
- Change Metrics
 - Route Map

- Section H: Connecting to an ISP
- Overview
 - BGP
 - BGP Operation & Configuration
 - BGP Configuration Example

- Section I: Static Routing to an ISP
- Set ISP Static Route
 - Configuring RIP

- Section J: Connect Autonomous Systems with BGP
- Building BGP Routing Process
 - Test/Review Routes

Total Time: 90 Minutes
□ This Video \$159
#560199
□ This CD-ROM \$189
#560278

SESSION 5

- Section A: NAT/PAT
- Overview
 - NAT Availability & Platform Support
 - "Inside Source" Address Translation
 - "Outside Source" Address Translation
 - PAT-Port Address Translation

- Section B: Dynamic Network Address Translation
- Overview
 - Set Up NAT
 - Test NAT

- Section C: Managing Network Congestion
- Congestion Sources
 - Controlling Congestion & Traffic Flow
 - Backbone Bandwidth Management
 - Frame Relay Traffic Shaping
 - Generic Traffic Shaping

- Section D: Quality of Service
- Overview
 - Where to Apply Quality of Service
 - Traffic Prioritization
 - Quality of Service through Queuing
 - Exercise in Custom Queuing

- Section E:
- Overview
 - Configuring & Verifying Priority Queuing
 - Load Balancing

- Section F: Extended IP Access Lists
- Overview
 - Set Up Tunneling
 - Verifying Tunneling

- Section G: Standard IP Access Lists
- Traffic Management
 - Access List Guidelines & Processing
 - Applying & Verifying Access Lists

- Section H: Extended IP Access Lists
- Overview
 - Building Extended Lists Overview
 - Building & Applying Extended Access Lists
 - Lab Review

- Section I: Misc. Traffic Management
- Virtual Terminal Access
 - Packet Switching to Limit Access
 - Helper Addressing
 - Naming/Proxies & Local Cache

- Section J: Managing IPX Traffic
- Managing IPX Traffic
 - IPX WAN
 - IPX Access List Use
 - IPX/SAP Filters

Total Time: 112 Minutes
□ This Video \$159
#560209

SESSION 6

- Section A: Managing Appletalk Traffic
- Overview
 - Appletalk Access Lists
 - Zip Reply Filters
 - RMTP Filters
 - Controlling NBP Broadcasts

- Section B: Bridging Overview
- Overview
 - Transparent and Source-route Bridging
 - Integrated Routing and Bridging
 - Encapsulated Bridging
 - Transparent Bridging

- Section C: Transparent Bridging
- Overview
 - Configuring Transparent Bridging
 - Verifying Transparent Bridging

- Section D: Source-route Transparent Bridging
- Overview
 - Configuring SR Transparent Bridging
 - Verifying SR Transparent Bridging

- Section E: Source Route Bridging
- Configuring Source-route Only Bridging
 - Verifying Source-route Only Bridging

- Section F: Source Route Translational Bridging
- Lab Review
 - Configuring SR Translational Bridging
 - Verifying SR Translational Bridging

- Section G: Integrated Routing & Bridging
- Overview
 - Configuring & Verifying IRB

- Section H: Dial-on-demand Routing Overview
- Overview
 - Configuring Dial-on-demand

- Section I: ISDN Overview
- Overview
 - Routing Over ISDN
 - ISDN Protocols & Standards

- Section J: ISDN BRI/PRI
- ISDN BRI
 - Service Profile Identifiers
 - ISDN PRI

Total Time: 96 Minutes
□ This Video \$159
#560219

SESSION 7

- Section A: ISDN Configuration
- ISP Issues
 - Router Options
 - Understanding PPP
 - Example Set Up

- Section B: Legacy DDR
- Configuration
 - Verifying Connectivity

- Section C: Dialer Profiles
- Elements
 - Configuring Dialer Pools
 - Verifying Operations
 - Rotary Groups

- Section D: Snapshot Routing
- Overview
 - Configuration
 - Verifying Configuration

- Section E: Dial Backup Links
- Configure Links
 - Verifying Links

- Section F: SPX Spoofing
- Overview

- Section G: Channelized T1/E1 Configuration

- Overview
- Configuration

- Section H: ISDN PRI Configuration
- Overview
 - Configuration

Total Time: 66 Minutes
□ This Video \$159
#560229

1.541.878.8505