

Contents at a Glance

Introduction xli

Part I Forwarding

Chapter 1 Packet Forwarding 2

Part II Layer 2

Chapter 2 Spanning Tree Protocol 36

Chapter 3 Advanced STP Tuning 58

Chapter 4 Multiple Spanning Tree Protocol 80

Chapter 5 VLAN Trunks and EtherChannel Bundles 94

Part III Routing

Chapter 6 IP Routing Essentials 124

Chapter 7 EIGRP 154

Chapter 8 OSPF 170

Chapter 9 Advanced OSPF 202

Chapter 10 OSPFv3 230

Chapter 11 BGP 244

Chapter 12 Advanced BGP 288

Chapter 13 Multicast 334

Part IV Services

Chapter 14 Quality of Service (QoS) 370

Chapter 15 IP Services 418

Part V Overlay

Chapter 16 Overlay Tunnels 466

Part VI Wireless

Chapter 17 Wireless Signals and Modulation 510

Chapter 18 Wireless Infrastructure 542

Chapter 19 Understanding Wireless Roaming and Location Services 572

Chapter 20 Authenticating Wireless Clients 590

Chapter 21 Troubleshooting Wireless Connectivity 608

Part VII Architecture

Chapter 22 Enterprise Network Architecture 622

Chapter 23 Fabric Technologies 642

Chapter 24 Network Assurance 672

Part VIII Security

Chapter 25 Secure Network Access Control 736

Chapter 26 Network Device Access Control and Infrastructure Security 778

Part IX SDN

Chapter 27 Virtualization 826

Chapter 28 Foundational Network Programmability Concepts 850

Chapter 29 Introduction to Automation Tools 892

Chapter 30 Final Preparation 926

Chapter 31 ENCOR 350-401 Exam Updates 932

Appendix A Answers to the “Do I Know This Already?” Questions 936

Glossary 956

Index 978

Online Elements

Appendix B Memory Tables

Appendix C Memory Tables Answer Key

Appendix D Study Planner

Glossary