



Dear Candidate,

We would like to take this opportunity to thank you for inquiring about our training services here at Brand College. This package has been compiled to provide the information you will need to choose the training program that will be most beneficial for you.

In this package, you will find information on:

- Our organization and its philosophy
- Training programs we offer
- Details on the training program of your inquiry

Every journey begins with a first step. You have already taken this first step by expressing interest in pursuing an educational program. We would welcome the opportunity to be your partner on this journey and help you complete your journey successfully.

Brand College was founded in direct response to the overwhelming demand for qualified computer professionals in today's information age. Armed with extensive background in information technology consulting and training, we are committed to providing students with high quality education that is relevant for today's rapidly changing IT environment. Our team is comprised of certified engineers and trainers who, as a group, have accumulated more than fifty years of practical experience in the field of information technology. Our goal is to maximize each student's educational experience by ensuring that entry-level students are not overwhelmed while more experienced students remain challenged.

Brand College currently offers several certification programs including:

- **CompTIA A+** PC Hardware Technician
- **CompTIA Linux+** Linux Certified Professional
- **MCITP** Microsoft Certified IT Professional
- **CCNA** Cisco Certified Network Associate
- **CCNA Voice** Cisco Certified Network Associate Voice
- **CCNP** Cisco Certified Network Professional
- **CCSP** Cisco Certified Security Professional
- **CCVP** Cisco Certified Voice Professional
- **CNTE** Certified Network Technologies Expert
- **CDNS** Certified Desktop and Network Specialist
- **CLWS** Certified LAN and WAN Specialist
- **CMNS** Certified Multi-Platform Network Specialist
- **CCNE** Cisco Certified Network Expert

Once again, thank you for your inquiry and we look forward to hearing from you in the very near future. Should you have any questions, please do not hesitate to contact our Admissions department by e-mail at [info@brandcollege.us](mailto:info@brandcollege.us) or by phone at (818) 550-0770.

Sincerely,

Brand College

### Cisco Certified Network Professional (CCNP)

This program is designed to build advanced or journeyman knowledge of both LAN and WAN infrastructure implementations in a Cisco environment. This set of courses builds on the concepts introduced in the CCNA program. Students will be exposed to more in-depth concepts relating to routing implementation and design; TCP/IP design strategies; switching concepts; WAN optimization and performance issues; as well as, basic troubleshooting/support techniques and approaches. Some of the many protocols that will be studied include: TCP/IP, RIP, EIGRP, OSPF, IS-IS, BGP. Other topics include: VLAN implementation and management; spanning-tree protocol; multicast management; remote access implementation; Cisco security features including AAA; subnet concepts, design considerations, and implementation; VLSM; CIDR and more. These are advanced courses providing the skills and knowledge necessary to pass the Cisco certification exams (four exams) necessary to become a Cisco Certified Network Professional (CCNP).

- Certification program
- 192 Contact Hours, 12 Credit Hours, 24 Weeks

#### TERM 1

Course No.	Course Name	Quarter Credit Hours	Clock Hours
CCA110	CISCO II	3	48
CCA120	CISCO III	3	48
<b>Total</b>		<b>6</b>	<b>96</b>

#### TERM 2

Course No.	Course Name	Quarter Credit Hours	Clock Hours
CCA130	CISCO IV	3	48
CCA140	CISCO V	3	48
<b>Total</b>		<b>6</b>	<b>96</b>

### Prerequisites

Candidates wishing to enter this course should have completed the Cisco Certified Network Associate program or have commensurate experience WAN technologies in a Cisco environment.

### Type of Document Received Upon Graduation

Upon successful completion of all program requirements, each student will be awarded a Certificate of Completion.

### Certification Tests

All certification exams are scored on a pass/fail basis. Depending on the specific exam, a correct response to 75% - 80% of the questions will be required to achieve a passing score. Students are encouraged to take exams immediately following completion of the corresponding course.

### Recommended Next Course

Candidates wishing to further their education are recommended to consider the Cisco Certified Security Professional (CCSP) program as the next logical step towards becoming a well rounded IT professional.

## CCNP Program Details

### COURSE CCA110

Title: Building Scalable Cisco Internetworks (BSCI)

Exam: 642-901

- List the Key Information Routers Needs to Route Data
- Describe Classful & Classless Routing Protocols
- Describe Link-State Router Protocol Operation
- Compare Classful & Classless Routing Protocols
- Compare Distance Vector & Link State Routing Protocols
- Describe Concepts to Extending IP Addresses & the Use of VLSMs to Extend IP addresses
- Describe the Features & Operation of EIGRP
- Describe the Features & Operation of Single Area OSPF
- Describe the Hierarchical Structure of IS-IS Areas
- Describe the Features & Operation of BGP

### COURSE CCA120

Title: Building Cisco Multilayer Switched Networks (BCMSN)

Exam: 642-812

- Describe the Enterprise Composite Model used for designing networks and explain how it addresses enterprise network needs for performance, scalability and availability
- Describe the physical, data-link and network layer technologies used in a switched network, and identify when to use each
- Explain the role of switches in the various modules of the Enterprise Composite Model (Campus Infrastructure, Server Farm, Enterprise Edge, Network Management)
- Explain the function of the Switching Database Manager [specifically Content Addressable Memory (CAM) and Ternary Content Addressable Memory (TCAM)] within a Catalyst switch
- Describe the features and operation of VLANs on a switched network
- Describe the features of the VLAN trunking protocols including 802.1Q, ISL (emphasis on 802.1Q) and dynamic trunking protocol
- Describe the features and operation of 802.1Q Tunneling (802.1QinQ) within a service provider network
- Describe the operation and purpose of managed VLAN services
- Describe how VTP versions 1 and 2 operate including domains, modes, advertisements, and pruning
- Explain the function of the Switching Database Manager [specifically Content Addressable Memory (CAM) and Ternary Content Addressable Memory (TCAM)] within a Catalyst switch

### COURSE CCA130

Title: Implementing Secure Converged Wide Area Networks (ISCW)

Exam: 642-825

- Describe how different WAN technologies can be used to provide remote access to a network, including asynchronous dial-in, Frame Relay, ISDN, cable modem, and DSL
- Describe traffic control methods used to manage traffic flow on WAN links
- Explain the operation of remote network access control methods
- Identify PPP components, and explain the use of PPP as an access and encapsulation method
- Configure asynchronous modems and router interfaces to provide network access
- Configure frame relay operation and traffic control on WAN links
- Design a Cisco remote access solution using asynchronous dial-up technology

- Design a Cisco frame relay infrastructure to provide access between remote network components
- Plan traffic shaping to meet required quality of service on access links
- Troubleshoot non-functional remote access systems

### COURSE CCA140

Title: Optimizing Converged Cisco Networks (ONT)

Exam: 642-845

- Establish an optimal system baseline
- Diagram and document system topology
- Document end system configuration
- Verify connectivity at all layers
- Select an optimal troubleshooting approach
- Plan a network documentation system
- Plan a baseline monitoring scheme
- Plan an approach to troubleshooting that minimizes system downtime
- Use Cisco IOS commands and applications to identify system problems at all layers
- Isolate system problems to one or more specific layers
- Resolve sub-optimal system performance problems at layers 2 through 7
- Resolve local connectivity problems at layer 1
- Restore optimal baseline service
- Work with external providers to resolve service provision problems
- Work with system users to resolve network related end-use problems