



Building Scalable Cisco Internetworks (BSCI) v3.0

Associated Certifications : CCDP / CCNP
Duration : 5 days, Classroom

Prerequisites

CCNA (INTRO and ICNDv2.2 or newer)

Course Content

CCNP routing protocol training for professional-level skills in building Enterprise level router networks and applications. Integrates Advanced Technologies.

Course Objective:

In this course, students will learn how to create an efficient and expandable enterprise network by installing, configuring, monitoring, and troubleshooting network infrastructure equipment (especially routers such as Cisco ISRs) according to the Campus Infrastructure module in the Enterprise Composite Network model. The routed network includes the most commonly used and emerging IP routing protocols.

Course Outline

- Course Introduction to Routing in an Enterprise Networks
- Configuring EIGRP
- Configuring OSPF
- The IS-IS Protocol
- Manipulating Routing Updates
- Implementing BGP
- Implementing Multicast
- Implementing the Basics of IPv6

Who Should Attend

- Channel Partner / Reseller
- Customer
- Employee



642-901 BSCI (Building Scalable Cisco Internetworks)

Exam Number	: 642-901
Associated Certifications	: CCNP , CCIP and CCDP
Duration	: 90 minutes
Available Languages	: English
Register for Exam	: Pearson VUE

Exam Description

The Building Scalable Cisco Internetworks (BSCI 642-901) is a qualifying exam for the Cisco Certified Network Professional CCNP®, Cisco Certified Design Professional CCDP®, and Cisco Certified Internetwork Professional CCIP™ certifications. The BSCI 642-901 exam will certify that the successful candidate has important knowledge and skills necessary to use advanced IP addressing and routing in implementing scalability for Cisco ISR routers connected to LANs and WANs. The exam covers topics on Advanced IP Addressing, Routing Principles, Multicast Routing, IPv6, Manipulating Routing Updates, Configuring basic BGP, Configuring EIGRP, OSPF, and IS-IS.

Exam Topics

The following information provides general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. In order to better reflect the contents of the exam and for clarity purposes the guidelines below may change at any time without notice.

Implement EIGRP operations

- Explain the functions and operations of EIGRP (e.g., DUAL).
- Configure EIGRP routing. (e.g., Stub Routing, authentication, etc.)
- Verify or troubleshoot EIGRP routing configurations.

Implement multiarea OSPF operations

- Explain the functions and operations of multiarea OSPF.
- Configure multiarea OSPF routing. (e.g., Stub, NSSA, authentication, etc.)
- Verify or troubleshoot multiarea OSPF routing configurations.

Describe integrated IS-IS

- Describe the features and benefits of integrated IS-IS.
- Configure and verify integrated IS-IS.

Implement Cisco IOS routing features

- Describe, configure or verify route redistribution between IP routing IGPs. (e.g., route-maps, default routes, etc.)
- Describe, configure or verify route filtering (i.e., distribute-lists and passive interfaces).
- Describe and configure DHCP services (e.g., Server, Client, IP helper address, etc.).

Implement BGP for enterprise ISP connectivity

- Describe the functions and operations of BGP.
- Configure or verify BGP operation in a non-transit AS (e.g., authentication).
- Configure BGP path selection. (i.e., Local Preference, AS Path, Weight or MED attributes).

Implement multicast forwarding

- Describe IP Multicast (e.g., Layer-3 to Layer-2 mapping, IGMP, etc.).
- Describe, configure, or verify IP multicast routing (i.e., PIM Sparse-Dense Mode).

Implement IPv6

- Describe IPv6 addressing operations.
- Describe IPv6 interoperation with IPv4.
- Describe, configure or verify OSPF routing with IPv6 addressing.