

CCDP Passport

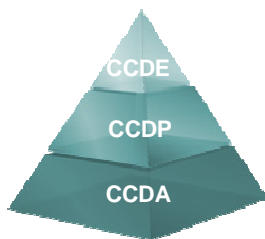
£3,300 + VAT passport price **saves £1,285** from individual courses

- **Three courses over 13 days**
- **Flexibility to choose training dates at your chosen pace and convenience**
- **Continuing post course support for 12 months**

Our **CCDP (Cisco Certified Design Professional)** passport combines to teach the full range of required CCDP topics in three separate training weeks.

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|--------------|--|--------|
| BCMSN | (Building Cisco Multi layered Switched Networks) | 4 days |
| BSCI | (Building Scalable Cisco Internetworks) | 4 days |
| ARCH | (Designing Cisco Network Service Architectures) | 5 Days |

The ARCH (Architecture course) should be taken last as it assumes knowledge in both the BSCI and BCMSN courses.



The CCDP certification indicates advanced journeyman knowledge of intelligent network design concepts and principles. A CCDP qualified network professional can discuss, design, and create advanced addressing and routing, security, network management, data centre, and IP multicast complex multi-layered enterprise architectures that include virtual private networking and wireless domains.

CCDP pre-requisites

Valid CCDA and CCNA certification.



Course Title: BCMSN (Building Cisco Multilayer Switched Networks)
Duration: 4 days

This course is designed for network administrators and support or design staff requiring a greater understanding of the advanced features and functions of Cisco Switching as a part of attaining CCNP or CCDP certification. This 4 day instructor led course explains how to design, build, configure and troubleshoot resilient campus networks using Cisco products and understand the appropriate technologies to build scalable multilayer switched networks.

Certification

This course is recommended as preparation for exam

- **642-812 BCMSN**

Objectives

Upon completion of this course, the delegate will be able to:

- Create VLANs
- Propagate VLAN information with VTP
- Manage Redundant Links with Spanning Tree
- Enable InterVLAN Routing
- Improve IP Routing performance with Multilayer Switching
- Implement HSRP for Fault Tolerant Routing
- Manage high bandwidth broadcasts with IP Multicast
- Implement secure wireless connectivity into the campus topology
- Use QoS to meet the service levels required by applications
- Secure the network and eliminating unwanted traffic
- Extend the campus through the use of Metropolitan Ethernet

Pre-Requisites

- CCNA certification

Content

- Introduction to Campus Networks
- Course Introduction
- Campus Networks as part of an Enterprise Network
- Devices in a Non-hierarchical Network
- Layer 2 Network Issues
- Routed Network Issues
- What is a Multilayer Switch
- Issues with Multilayer Switches and VLANs in a Non-hierarchical Network
- The Enterprise Composite Model
- Benefits of the Enterprise Composite Model
- Campus Infrastructure Module
- Best Practices for VLAN Topologies
- Implementing VLANs
- Implementing Trunks
- Propagating VLAN Configurations with VTP
- Correcting Common VLAN Configuration Errors
- Spanning Tree Protocol
- Preventing STP Forwarding Loops
- Implementing Rapid Spanning Tree Protocol (RSTP)
- Implementing the Multiple Spanning Tree Protocol (MSTP)
- Configuring Link Aggregation and EtherChannel

Content (continued)

- Routing Between VLANs
- Deploying CEF-Based Multilayer Switching
- Enabling Routing Between VLANs
- Configuring Layer 3 Redundancy with HSRP
- Configuring Layer 3 Redundancy with VRRP and GLBP
- Implementing Hardware and Software Redundancy in Modular Switches
- Redundant Power Supply Configuration Commands
- Introducing Wireless LANs (WLANs)
- Wireless Theory and Standards
- Implementing WLANs
- Cisco WLAN
- Cisco Wireless Clients
- Configuring Basic WLAN
- Planning for Implementation of Voice in a Campus Network
- Accommodating Voice Traffic on Campus Switches
- Switch Security Issues
- Protecting Against VLAN Attacks
- Protecting Against Spoof Attacks
- Securing Network Switches
- STP Security Mechanisms

Course Title: BSCI (Building Scalable Cisco Internetworks)
Duration: 4 days

The four day instructor led course explains how design, select and configure IP routing protocols to enable corporate size routing. This theme is expanded to understand how the Internet routing is achieved. The course is supplemented with many practical tips learnt from IP routing projects. This course is intended for network administrators and support or design staff requiring a greater understanding of IP routing protocols, the issues, limitations and implementation of Cisco products in the deployment of a router based Internetworks.

Certification

This course is recommended as preparation for exam

- **642-901 BSCI**

Objectives

Upon completion of this course, the delegate will be able to:

- Converged network requirements of various network and networked applications within the Cisco network architectures
- Using advanced IP address configuration techniques to optimise your network
- Implementing and verifying EIGRP operations
- Building a scalable multi-area network with OSPF
- Configuring integrated IS-IS in a single area
- Manipulating routing and packet flow
- Implementing and verifying BGP for enterprise ISP connectivity
- Implementing and verifying multicast forwarding using PIM and related protocols
- Network reconfiguration to adapt to new technologies, including IPv6
- Understanding IPv6 functions in order to satisfy the increasingly complex requirements of hierarchical addressing
 - IPv6 routing protocols

Pre-Requisites

- CCNA certification

Content

- Network Requirements
- Introducing EIGRP
- Implementing and Verifying EIGRP
- Configuring Advanced EIGRP Options
- Configuring EIGRP Authentication
- Using EIGRP in an Enterprise Network
- Configuring OSPF
- Introducing the OSPF Protocol
- OSPF Packet Types
- Configuring OSPF Routing
- OSPF Network Types
- Link State Advertisements
- Configuring OSPF Route Summarization
- Configuring OSPF Special Area Types
- Configuring OSPF Authentication
- Introducing IS-IS and Integrated IS-IS Routing
- IS-IS Routing Operation
- Configuring Basic Integrated IS-IS

Content (continued)

- Manipulating Routing Updates
- Operating a Network Using Multiple IP Routing Protocols
- Configuring and Verifying Route Redistribution
- Controlling Routing Update Traffic
- Implementing Advanced IOS Features: Configuring DHCP
- Explaining BGP Concepts and Terminology
- Explaining EBGP and IBGP
- Configuring Basic BGP Operations
- Selecting a BGP Path
- Using Route Maps to Manipulate Basic BGP Paths
- Explaining Multicast
- IGMP and Layer 2 Issues
- Explaining Multicast Routing Protocols
- Multicast Configuration and Verification
- Introducing IPv6
- Defining IPv6 Addressing
- Implementing Dynamic IPv6 Addresses
- Using IPv6 with OSPF and Other Routing Protocols
- Using IPv6 with IPv4



Course Title: Designing Cisco Network Service Architectures (ARCH)
Duration: 5 days

ARCH is a five day instructor led course which teaches delegates how to perform the conceptual and intermediate design of a network infrastructure that supports the desired network solutions over intelligent network services, to achieve effective performance, scalability and availability. The delegate will learn the fundamental aspects of the network design addressing QOS, Security, Network Management, fine tuning Routing Protocols, Switching Structures and IP Multicast. In addition the delegate will leave with Solution Models for solutions and aspects of the network that are strategic to today's Cisco's customers: Voice over IP and IP Telephony, Content and Storage Networking, Wireless Networking.

Certification

This course is recommended as preparation for exam

- **642-873 ARCH**

Objectives

After completing this course the delegate will be able to:

- Present the Cisco AVVID framework, its segmentation of the network infrastructure, as well as intelligent network services to support key enterprise network applications and network solutions
- Create conceptual, intermediate, and detailed enterprise campus network and enterprise edge infrastructure designs that offer effective functionality, performance, scalability, and availability, given specified enterprise network needs
- Create conceptual, intermediate, and detailed intelligent network service designs for network management, high availability, security, quality of service, and IP multicast, given specified enterprise network needs
- Create conceptual, intermediate, and detailed virtual private network designs, given specified enterprise network needs
- Create conceptual, intermediate, and detailed wireless network designs, given specified enterprise network needs
- Create conceptual, intermediate, and detailed IP telephony designs, given specified enterprise network needs

Pre-Requisites

- CCNA certification
- CCDA certification
- BSCI certification
- BCMSN certification

Content

Delegates will learn how to perform the conceptual and intermediate design of a network infrastructure that supports the desired network solutions over intelligent network services, to achieve effective performance, scalability, and availability.

- Introducing Cisco Network Service Architectures
- Designing Enterprise Campus Networks
- Designing Enterprise Edge Connectivity
- Designing Network Management Solutions
- Designing High Availability Solutions
- Designing Security Solutions
- Designing QOS Solutions
- Designing IP Multicast Solutions
- Designing Virtual Private Networks
- Designing Enterprise Wireless Networks
- Designing IP Telephony Solutions