



# Designing Cisco Network Service Architecture (CCDP-ARCH)

(CCDP-ARCH 300-320)

**Course Objective:**

The aim of the course is to enable learners to perform the conceptual, intermediate, and detailed design of a network infrastructure that supports desired network solutions over intelligent network services, in order to achieve effective performance, scalability, and availability.

**Prerequisite:**

Valid Cisco CCDA and CCNA Routing and Switching or any Cisco CCIE certification can act as a prerequisite.

**Certificate Of Attendance :**

Certificate Of Attendance will be awarded to participants completing the course achieving minimum 75% attendance.

**Training Duration:**

Full-Time : 5 Days  
Time : 9.30am – 5.30pm

**Course Fee :**

Course Fee : S\$2,999  
Regn Fee : S\$50  
All fees subject to GST 7%. Course fee excludes Cisco Exam.

**Cisco Exam :**

This course prepares participants for Cisco Exam : 300-320 ARCH.

## DETAILED COURSE OUTLINE

### Designing Cisco Network Service Architecture (ARCH)

**1. Advancing Addressing & Routing Solutions for Enterprise Networks (22%)**

- 1.1 Create structured addressing designs to facilitate summarization
- 1.2 Create stable, secure, and scalable routing designs for IS-IS
- 1.3 Create stable, secure, and scalable routing designs for EIGRP
- 1.4 Create stable, secure, and scalable routing designs for OSPF
- 1.5 Create stable, secure, and scalable routing designs for BGP
- 1.6 Determine IPv6 migration strategies

**2. Advanced Enterprise Campus Networks (20%)**

- 2.1 Design for high availability
- 2.2 Design campus Layer 2 infrastructures
- 2.3 Design multicampus Layer 3 infrastructures
- 2.4 Design a network to support network programmability

**3. WANS for Enterprise Network (17%)**

- 3.1 Compare and contrast WAN connectivity options
- 3.2 Design site-to-site VPNs
- 3.3 Design for a resilient WAN strategy
- 3.4 Design Extranet connectivity
- 3.5 Design Internet edge connectivity

**4. Enterprise Data Center Integration (17%)**

- 4.1 Describe a modular and scalable data center network
- 4.2 Describe network virtualization technologies for the data center
- 4.3 Describe high availability in a data center network
- 4.4 Design data center interconnectivity
- 4.5 Design data center and network integration

**5. Security Services (13%)**

- 5.1 Design firewall and IPS solutions
- 5.2 Design network access control solutions
- 5.3 Design infrastructure protection

**6. Network Services (11%)**

- 6.1 Select appropriate QoS strategies to meet customer requirements
- 6.2 Design end-to-end QoS policies
- 6.3 Describe network management techniques
- 6.4 Describe multicast routing concepts
- 6.5 Design multicast services

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