DESIGNING CISCO NETWORK SERVICE ARCHITECTURE
(CI-ARCH)

Temario

Designing Cisco Network Service Architectures (ARCH) v3.0 course enable students to perform the conceptual, intermediate, and detailed design of a network infrastructure that supports desired network solutions over intelligent network services, to achieve effective performance, scalability, and availability. ARCH enables learners, applying solid Cisco network solution models and recommended design practices, to provide viable, stable enterprise internetworking solutions. The course presents concepts and examples necessary to design converged enterprise networks. New in v3.0 is the addition of a content addressing software defined networks (SDN). Building on the Designing for Cisco Internetwork Solutions (DESGN) v3.0 course, in the ARCH course the students will learn additional aspects of modular campus design, advanced addressing and routing designs, WAN service designs, enterprise data center, and security designs. Upon completing this course, you will be able to meet these objectives:

Pre-requisitos

Before taking the ARCH course, learners should be familiar with:

- Internetworking technologies, Cisco products, and Cisco IOS features
- Cisco Certified Network Associate (CCNA®) level-of-knowledge
- Designing for Cisco Internetwork Solutions (DESGN) level-of-knowledge
- Implementing Cisco IP Switched Networks (SWITCH) level-of-knowledge
- Implementing Cisco IP Routing (ROUTE) level-of-knowledge

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- Channel Partners
- Customers
- Employees

Objetivos del curso

Upon completing this course, the learner will be able to meet these overall objectives:

- Design internal routing for enterprise network
- Design BGP routing for enterprise network
- Design enterprise WAN connectivity
- Design enterprise data center integration
- Design security services in an enterprise network
- Design QoS for optimized user experience
- Design enterprise transition to IPv6
- Design enterprise multicast network

<u>**Contenido**</u>

- Course Introduction
- Module 1: Enterprise Connectivity and High-Availability
- Module 2: BGP Design
- Module 3: Wide Area Networks Design
- Module 4: Enterprise Data Center Integration
- Module 5: Design Security Services
- Module 6: Design QoS for Optimized User Experience
- Module 7: Transition to IPv6
- Module 8: IP Multicast Design