

CS-IPv6



IPv6 FOR ENTERPRISE NETWORKS

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
5 Days	Intermediate	Cisco IPv6	Instructor Led	N/A

INTRODUCTION

IPv6 for Enterprise Networks brings together all the information you need to successfully deploy IPv6 in any campus, WAN/branch, data centre, or virtualized environment. This five-day course provides learners with a practical approach to organizing and executing large-scale IPv6 implementations. In addition, the curriculum covers how IPv6 affects existing network designs, common IPv4/IPv6 coexistence mechanisms, powerful new IPv6 services for routing, QoS, multicast, and management.

AUDIENCE PROFILE

This course is intended for individuals working in an enterprise IT environment.

PREREQUISITES

The knowledge and skills that a learner must have before attending this course are as follows:

- Fundamental knowledge of IPv6
- Thorough understanding of networking technologies and network design and deployment

COURSE OBJECTIVES

The purpose of this course is to go beyond the basic protocol concepts and configurations and to focus on providing practical design and implementation solutions using a hands-on approach. This course is intended to cover advanced BGP topics in designing and implementing networks.

On completion of this course, participants should:

- Identify how IPv6 affects enterprises
- Understand IPv6 services and the IPv6 features that make them possible
- Review the most common transition mechanisms including dual-stack (IPv4/IPv6) networks, IPv6 over IPv4 tunnels, and IPv6 over MPLS
- Create IPv6 network designs that reflect proven principles of modularity, hierarchy, and resiliency
- Select the best implementation options for your organization
- Build IPv6 lab environments
- Configure IPv6 step-by-step in campus, WAN/branch, and data center networks
- Integrate production-quality IPv6 services into IPv4 networks
- Implement virtualized IPv6 networks
- Deploy IPv6 for remote access
- Manage IPv6 networks efficiently and cost-effectively

COURSE CONTENT

Lesson 1: Market Drivers for IPv6 Adoption

Lesson 2: Hierarchical Network Design

Lesson 3: Common IPv6 Coexistence Mechanisms

Lesson 4: Network Services

Lesson 5: Planning an IPv6 Deployment

Lesson 6: Deploying IPv6 in Campus Networks

Lesson 7: Deploying Virtualized IPv6 Networks

Lesson 8: Deploying IPv6 in WAN/Branch Networks

Lesson 9: Deploying IPv6 in the Data Center

Lesson 10: Deploying IPv6 for Remote Access VPN

Lesson 11: Managing IPv6 Networks

ASSOCIATED CERTIFICATIONS & EXAM

There is no exam associated with this course.