

IPv6 Operations and Troubleshooting

Price: 4295

Duration: 5 days

Delivery Methods: Virtual

Overview

IPv6 Operations and Troubleshooting (IP6OTS) is an EnterOne-exclusive 5-day course that provides network engineers and technicians that are working in the enterprise and federal government sectors with the knowledge and skills that are needed to operate, configure, and troubleshoot Cisco IPv6-enabled networks. This course was designed and developed by EnterOne working with the Cisco Federal Team to address and align to the 2025 Federal System IPv6 Mandate.

Who Should Enroll

The primary audience for this course is as follows:

- Network engineers and technicians that are working in the enterprise or service provider sectors.

How you'll benefit

This training will help you:

- Overview of IPv6 technologies
- IPv6 design and implementation
- IPv6 operations include: addressing, routing and transitional methods
- Deployment of IPv6 in enterprise, government and service provider networks
- Case studies useful for deployment scenarios
- Current standards for deploying IPv6 in a single stack or dual stack environment

COURSE OBJECTIVES

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

- Describe the factors that led to the development of IPv6 and possible uses of this new IP structure.
- Describe the structure of the IPv6 address format, how IPv6 interacts with data link layer technologies, and how IPv6 is supported in Cisco IOS XE Software.
- Implement IPv6 services and applications.

- Understand the updates to IPv4 routing protocols needed to support IPv6 topologies.
- Understand multicast concepts and IPv6 multicast specifics.
- Evaluate the scenario and desired outcome and identify the best transition mechanism for the situation.
- Describe security issues, how security for IPv6 is different than for IPv4, and emerging practices for IPv6-enabled networks.
- Describe the deployment strategies with cloud providers and emerging technologies.

Learning Path Prerequisites

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

- Cisco CCNA certification or equivalent skillset

COURSE OUTLINE

Module 1: Introduction to IPv6

Module 2: IPv6 Operations

Module 3: IPv6 Services

Module 4: IPv6-Enabled Routing Protocols

Module 5: Troubleshooting IPv6 Unicast Operations and Services

Module 6: IPv6 Multicast Services

Module 7: IPv6 Transition Mechanisms

Module 8: IPv6 Security

Module 9: Deploying IPv6

Module 10: Using IPv6 in a Software-Defined World

Course Schedule

Date	Time	Price	Options
08/17/2026	09:00 AM - 05:00 PM CT	4,295.00	Buy Now Enroll
12/07/2026	09:00 AM - 05:00 PM CT	4,295.00	Buy Now Enroll

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FAQ

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What is your late policy?

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What happens when I finish my class?

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