

# Advanced Junos Enterprise Switching Using Enhanced Layer 2 Software (AJEX)

ID AJEX Price CHF 2,100.—(excl. VAT) Duration 2 days

## Who should attend

This course benefits individuals responsible for configuring and monitoring EX Series Switches using Junos OS.

- Configure and monitor CoS in a Layer 2 network.
- List common issues that disrupt network operations.
- Identify tools used in network troubleshooting.
- List available tools to resolve network issues.

## This course is part of the following Certifications

Juniper Networks Certified Internet Professional Enterprise Routing & Switching (JNCIP-ENT)

## Prerequisites

The prerequisites for this course include:

- Basic networking knowledge and an understanding of the OSI reference model and the TCP/IP protocol suite.
- Completion of the [Introduction to the Junos Operating System \(IJOS\)](#) course prior to attending this class.
- Completion of the [Junos Enterprise Switching \(JEX\)](#) course prior to attending this class.

## Course Objectives

- Modify traffic flows within a VLAN.
- Manage dynamic VLAN registration.
- Implement Layer 2 tunnel traffic through Ethernet networks.
- Review the purpose and operations of a spanning tree.
- Implement multiple spanning-tree instances in a network.
- Implement one or more spanning-tree instances for a VLAN.
- List the benefits of implementing end-user authentication.
- Explain the operations of various access control features.
- Configure and monitor various access control features.
- Describe processing considerations after enabling multiple authentication and access control features.
- Describe some common IP telephony deployment scenarios.
- Describe features that facilitate IP telephony deployments.
- Configure and monitor features used in IP telephony deployments.
- Explain the purpose and basic operations of CoS.
- Describe CoS features used in Layer 2 networks.

## Course Content

- Implementing VLAN Traffic Management
- Advanced Ethernet Switching
- MSTP
- VSTP
- Authentication and Access Control
- Access Control Features—MAC RADIUS and Captive Portal
- IP Telephony Features—Power over Ethernet, Neighbor Discovery Using LLDP
- IP Telephony Features—Voice VLAN
- Class of Service—Overview
- Implementing Class of Service
- Introduction to Monitoring and Troubleshooting Layer 2 Enterprise Networks
- Monitoring and Troubleshooting Layer 2 Enterprise Networks

## Self-Study Modules

- Juniper Mist Wired Assurance—Overview
- Juniper Mist Wired Assurance, Day One—Deployment and Configuration

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## Training Centres worldwide



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