

# Advanced Junos Enterprise Switching (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.

## 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 <u>Introduction to the Junos Operating</u> System (IJOS) course prior to attending this class.
- Completion of the <u>Junos Enterprise Switching (JEX)</u> course prior to attending this class.

### **Course Objectives**

- Modify traffic flows within a VLAN.
- Manage dynamic VLAN registration.
- Implement Layer 2tunneltraffic 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 VI AN
- 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.
- 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.

#### **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**





## Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3 CH-8304 Wallisellen Tel. +41 44 832 50 80

info@flane.ch, https://www.flane.ch