Introduction to Juniper Mist AI

Category: Networking & Security | **Vendor:** Juniper

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This introductory three-day course serves as the springboard to understanding the Mist AI™ Full Stack offerings. This course provides students a comprehensive understanding of a fully deployed, driven by Mist AI wired, wireless, and software-defined WAN (SD-WAN) network. In their lab environments, students will explore each Mist AI offering at a high level, focusing on wireless and Edge products, switching and campus design, SD-WAN connectivity, enterprise routing capabilities, deploying Juniper Mist™ Access Assurance, and Juniper® Location Service, driven by Mist AI™.

This course is for students seeking to understand Mist AI and how the full stack combines for complete AI-native networking. After completing this course, students can articulate the benefits and essential functions of the Mist AI flexible, scalable, and distributed architecture with AI across their wired, wireless, and SD-WAN networks.

About This Course

- Introduction to Juniper Mist
- Introduction to Artificial Intelligence and the Juniper Mist AI-Native Network
- Introduction to Marvis VNA
- Juniper Mist—Accounts and Management
- Juniper Mist SD-WAN Capabilities and Use Cases
- Juniper Mist WAN Assurance—Deployment Workflow
- Juniper Mist WAN Assurance—Management and Monitoring
- Juniper Mist Access Assurance—Capabilities and Use Cases
- Juniper Mist Routing Assurance—Capabilities and Use Cases
- Juniper Mist Wired Assurance—Day 0 Expectations
- Juniper Mist Wired Assurance—Deployment and Workflow
- Juniper Mist Wired Assurance—Management and Monitoring
- Juniper Mist Wireless Assurance—Day 0 Expectations
- Juniper Mist Wireless Assurance—Deployment and Workflow
- Juniper Mist Wireless Assurance—Management and Monitoring
- Juniper Mist Location Services—Capabilities and Use Cases
- Juniper Mist Templatization, Variables, and Automation
- Juniper Mist API
- Juniper Mist Documentation and Support

Who Should Attend

Individuals with a high-level understanding of the Mist AI Full Stack and Mist AI-Native Networking solutions. This course is the first step in the education track in the Juniper Mist™ curriculum.

Prerequisites & Entry Requirements

General Prerequisites:

- Basic Junos OS knowledge
- Basic understanding of the OSI model and IP networking
- Basic wireless understanding
- Completion of the Getting Started with Networking e-learning course

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Describe the Juniper Mist™ cloud.
- Explain the key concepts, terminology, and configuration for the Juniper Mist Full Stack, including:

- Juniper Mist Wireless Assurance.
- Juniper Mist™ Wired Assurance.
- Juniper Mist™ WAN Assurance.
- Articulate key features in the Juniper Mist solutions, including:

- Marvis® Virtual Network Assistant, Marvis Actions, Marvis Minis.
- Juniper Mist Network Analytics.
- Juniper Mist™ Premium Analytics.
- Juniper Mist™ Access Assurance (NAC).
- Juniper Mist™ Routing Assurance.
- Location Service, driven by Mist AI.
- Juniper Mist™ Edge.
- Juniper Secure Services Edge integrations.
- Apstra Cloud Services Integration with Mist AI.

Detailed Course Outline

Introduction to Juniper Mist

- Outline Juniper Mist
- Describe Marvis and Marvis Minis
- Define Juniper Mist full stack
- Outline Juniper Mist services and solutions

Introduction to Artificial Intelligence and the Juniper Mist AI-Native Network

- Describe the evolution of artificial intelligence
- Describe machine learning
- Describe Mist AI
- Describe the Juniper Mist cloud

Introduction to Marvis VNA

- Describe Marvis VNA
- Describe Marvis Actions
- Provide an overview of the Marvis Conversational Assistant and the Marvis Query Language
- Describe Marvis Minis

Juniper Mist—Accounts and Management

- Describe how to create and manage a Juniper Mist account
- Outline Juniper Mist management and administration
- Describe Juniper Mist e-mail alerts and notifications
- Outline Juniper Mist subscription options

Lab 1: Juniper Mist Accounts

Juniper Mist SD-WAN Capabilities and Use Cases

- Define SD-WAN
- Describe WAN Edge and Overlay
- Explain tunnel-free routing
- Outline platform considerations and deployment patterns

Juniper Mist WAN Assurance—Deployment Workflow

- Outline the Juniper® SD-WAN driven by Mist AI™ Intent Model
- Outline WAN Edge templates and hub profiles

- Describe Application Steering and SD-WAN policies
- Outline secure services edge integrations

Juniper Mist WAN Assurance—Management and Monitoring

- Explain Session Smart SD-WAN SLEs
- Describe Marvis Actions and WAN Edge Insights for SD-WAN
- Outline WAN user experiences and application-based context
- Outline the customer deployment journey

Lab 2: WAN Assurance

Juniper Mist Access Assurance—Capabilities and Use Cases

- Describe the components of network access control
- Explain the features of Juniper Mist Access Assurance
- Describe the Juniper Mist Access Assurance use cases
- Describe authentication policies
- Describe posture compliance

Juniper Mist Routing Assurance—Capabilities and Use Cases

- Outline Juniper Mist Routing Assurance features
- Describe Juniper Mist Routing Assurance use cases
- Describe the onboarding and configuration workflows for Day 0 and Day 1
- Explain WAN Monitoring SLEs and Day 2 experiences

Juniper Mist Wired Assurance—Day 0 Expectations

- Define Day 0 expectations
- Describe the Wired Assurance configuration hierarchy
- Outline wired configuration elements

- Describe how to configure VLANs and port profiles, and how to assign them
- Describe dynamic port profiles

Juniper Mist Wired Assurance—Deployment and Workflow

- Define Day 1 expectations
- Explain Juniper Mist Wired Assurance and Wired Visibility
- Describe Juniper Mist Wired devices and Virtual Chassis
- Outline how to onboard switches
- Describe distributed enterprise deployments
- Compare traditional campus networks to EVPN-VXLAN campus fabrics
- Explain microsegmentation
- Outline the Juniper Mist EVPN Campus Fabric Wizard

Juniper Mist Wired Assurance—Management and Monitoring

- Define Day 2+ expectations
- Describe wired insights, SLEs, and monitoring
- Describe Marvis Actions for Juniper switches

Lab 3: Wired Assurance

Juniper Mist Wireless Assurance—Day 0 Expectations

- Define Day 0 expectations
- Outline the configuration of sites, WLAN templates, WLANs, and VLANs
- Describe RF templates and device profiles
- Explain SSID strategies for 802.1X, portals, and BYOD

Juniper Mist Wireless Assurance—Deployment and Workflow

- Describe Day 1 expectations

- Define Juniper Access Points
- Describe how to onboard access points
- Outline Juniper Mist Wireless Assurance use cases

Juniper Mist Wireless Assurance—Management and Monitoring

- Define Day 2+ expectations
- Define Juniper Mist Wireless Assurance
- Describe wireless insights, SLEs, and monitoring
- Describe viewing clients
- Describe Marvis Actions for Juniper Aps

Lab 4: Wireless Assurance

Juniper Mist Location Services—Capabilities and Use Cases

- Describe the use cases for Location Services
- Outline Juniper Mist Location Service Devices
- Explain BLE
- Describe vBLE Engagement and virtual beacons
- Outline the features of Asset Visibility
- Explain Juniper Mist User Engagement

Juniper Mist Templatization, Variables, and Automation

- Define Juniper Mist templates
- Outline Wireless, Wired, and SD-WAN templating
- Describe Juniper Mist template deployment
- Describe Juniper Mist variables

Juniper Mist API

- Explain API concepts

- Describe the Juniper Mist RESTful API

- Describe the Juniper Mist WebSocket API

- Describe the Juniper Mist Webhooks API

Juniper Mist Documentation and Support

- Explain Juniper Mist documentation

- Outline how to create support tickets

- Explain feature requests

Lab 5: Troubleshooting and Juniper Mist Help

Skills You Will Learn:

- Describe the Juniper Mist™ cloud.
- Explain the key concepts, terminology, and configuration for the Juniper Mist Full Stack, including:

- Juniper Mist Wireless Assurance.
- Juniper Mist™ Wired Assurance.
- Juniper Mist™ WAN Assurance.
- Articulate key features in the Juniper Mist solutions, including:

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Frequently Asked Questions

Q: What delivery options are available for Introduction to Juniper Mist AI?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Introduction to Juniper Mist AI course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Introduction to Juniper Mist AI training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Introduction to Juniper Mist AI?

Yes, we provide corporate training, dedicated training, and closed classes for Introduction to Juniper Mist AI. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Introduction to Juniper Mist AI, Enterprise Routing & Switching, IJMA

Q: Why choose Nexus Human for Introduction to Juniper Mist AI?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Introduction to Juniper Mist AI training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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