

## Introduction to Juniper Mist AI (IJMA)

**Duration: 3 Days**    **Course Code: JUN\_IJMA**

### 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, SDWAN 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.

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This is an introductory course.

Related Juniper Products

• EX Series • Junos OS • MX Series • SRX Series • Network Design • Juniper Apstra • Mist AI • Session Smart Routers

### Target Audience:

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.

### Objectives:

- After successfully completing this course, you should be able to:
  - • Describe the Juniper Mist™ cloud.
  - • Explain the key concepts, terminology, and configuration for the Juniper Mist Full Stack, including:
    - o Juniper Mist Wireless Assurance.
    - o Juniper Mist™ Wired Assurance.
    - o Juniper Mist™ WAN Assurance.
  - • Articulate key features in the Juniper Mist solutions, including:
    - o Marvis® Virtual Network Assistant, Marvis Actions, Marvis Minis.
    - o Juniper Mist Network Analytics.
    - o Juniper Mist™ Premium Analytics.
    - o Juniper Mist™ Access Assurance (NAC).
    - o Juniper Mist™ Routing Assurance.
    - o Location Service, driven by Mist AI.
    - o Juniper Mist™ Edge.
    - o Juniper Secure Services Edge integrations.
    - o Apstra Cloud Services Integration with Mist AI.

### Prerequisites:

- Basic Junos OS knowledge

### Testing and Certification

JNCIA-MistAI Certification

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

Exam vouchers are available at an additional cost - please ask for details.

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### Follow-on-Courses:

Deploying and Managing Juniper Wireless Networks with Mist AI

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## Content:

Day 1	<ul style="list-style-type: none"> <li>• Outline the customer deployment journey</li> </ul>	<ul style="list-style-type: none"> <li>• Describe RF templates and device profiles</li> </ul>
1 Introduction to Juniper Mist	<p>Lab 2: WAN Assurance</p> <p>8 Juniper Mist Access Assurance—Capabilities and Use Cases</p> <ul style="list-style-type: none"> <li>• Describe the components of network access control</li> <li>• Explain the features of Juniper Mist Access Assurance</li> </ul>	<ul style="list-style-type: none"> <li>• Explain SSID strategies for 802.1X, portals, and BYOD</li> </ul> <p>14 Juniper Mist Wireless Assurance—Deployment and Workflow</p> <ul style="list-style-type: none"> <li>• Describe Day 1 expectations</li> <li>• Define Juniper Access Points</li> <li>• Describe how to onboard access points</li> <li>• Outline Juniper Mist Wireless Assurance use cases</li> </ul>
<ul style="list-style-type: none"> <li>• Outline Juniper Mist</li> <li>• Describe Marvis and Marvis Minis</li> <li>• Define Juniper Mist full stack</li> <li>• Outline Juniper Mist services and solutions</li> </ul>	<ul style="list-style-type: none"> <li>• Describe the Juniper Mist Access Assurance use cases</li> <li>• Describe authentication policies</li> <li>• Describe posture compliance</li> </ul>	<p>15 Juniper Mist Wireless Assurance—Management and Monitoring</p> <ul style="list-style-type: none"> <li>• Define Day 2+ expectations</li> <li>• Define Juniper Mist Wireless Assurance</li> <li>• Describe wireless insights, SLEs, and monitoring</li> <li>• Describe viewing clients</li> <li>• Describe Marvis Actions for Juniper Aps</li> </ul>
2 Introduction to Artificial Intelligence and the Juniper Mist AI-Native Network	<ul style="list-style-type: none"> <li>• Describe the evolution of artificial intelligence</li> <li>• Describe machine learning</li> <li>• Describe Mist AI</li> <li>• Describe the Juniper Mist cloud</li> </ul>	
3 Introduction to Marvis VNA	<p>9 Juniper Mist Routing Assurance—Capabilities and Use Cases</p> <ul style="list-style-type: none"> <li>• Outline Juniper Mist Routing Assurance features</li> <li>• Describe Juniper Mist Routing Assurance use cases</li> <li>• Describe the onboarding and configuration workflows for Day 0 and Day 1</li> <li>• Explain WAN Monitoring SLEs and Day 2 experiences</li> </ul>	<p>Lab 4: Wireless Assurance</p> <p>16 Juniper Mist Location Services—Capabilities and Use Cases</p> <ul style="list-style-type: none"> <li>• Describe the use cases for Location Services</li> <li>• Outline Juniper Mist Location Service Devices</li> <li>• Explain BLE</li> <li>• Describe vBLE Engagement and virtual</li> </ul>
<ul style="list-style-type: none"> <li>• Describe Marvis VNA</li> <li>• Describe Marvis Actions</li> <li>• Provide an overview of the Marvis Conversational Assistant and the Marvis Query Language</li> <li>• Describe Marvis Minis</li> </ul>	<p>10 Juniper Mist Wired Assurance—Day 0 Expectations</p> <ul style="list-style-type: none"> <li>• Define Day 0 expectations</li> <li>• Describe the Wired Assurance configuration hierarchy</li> <li>• Outline wired configuration elements</li> <li>• Describe how to configure VLANs and port</li> </ul>	
4 Juniper Mist—Accounts and Management	<ul style="list-style-type: none"> <li>• Describe how to create and manage a Juniper Mist account</li> <li>• Outline Juniper Mist management and administration</li> <li>• Describe Juniper Mist e-mail alerts and</li> </ul>	

notifications	profiles, and how to assign them	beacons
<ul style="list-style-type: none"> <li>• Outline Juniper Mist subscription options</li> </ul>	<ul style="list-style-type: none"> <li>• Describe dynamic port profiles</li> </ul>	<ul style="list-style-type: none"> <li>• Outline the features of Asset Visibility</li> </ul>
Lab 1: Juniper Mist Accounts	11 Juniper Mist Wired Assurance—Deployment and Workflow	<ul style="list-style-type: none"> <li>• Explain Juniper Mist User Engagement</li> </ul>
5 Juniper Mist SD-WAN Capabilities and Use Cases	<ul style="list-style-type: none"> <li>• Define Day 1 expectations</li> </ul>	17 Juniper Mist Templatization, Variables, and Automation
<ul style="list-style-type: none"> <li>• Define SD-WAN</li> </ul>	<ul style="list-style-type: none"> <li>• Explain Juniper Mist Wired Assurance and Wired Visibility</li> </ul>	<ul style="list-style-type: none"> <li>• Define Juniper Mist templates</li> </ul>
<ul style="list-style-type: none"> <li>• Describe WAN Edge and Overlay</li> </ul>	<ul style="list-style-type: none"> <li>• Describe Juniper Mist Wired devices and Virtual Chassis</li> </ul>	<ul style="list-style-type: none"> <li>• Outline Wireless, Wired, and SD-WAN templating</li> </ul>
<ul style="list-style-type: none"> <li>• Explain tunnel-free routing</li> </ul>	<ul style="list-style-type: none"> <li>• Outline how to onboard switches</li> </ul>	<ul style="list-style-type: none"> <li>• Describe Juniper Mist template deployment</li> </ul>
<ul style="list-style-type: none"> <li>• Outline platform considerations and deployment patterns</li> </ul>	<ul style="list-style-type: none"> <li>• Describe distributed enterprise deployments</li> </ul>	<ul style="list-style-type: none"> <li>• Describe Juniper Mist variables</li> </ul>
6 Juniper Mist WAN Assurance—Deployment Workflow	<ul style="list-style-type: none"> <li>• Compare traditional campus networks to EVPNVXLAN campus fabrics</li> </ul>	18 Juniper Mist API
<ul style="list-style-type: none"> <li>• Outline the Juniper® SD-WAN driven by Mist AI™ Intent Model</li> </ul>	<ul style="list-style-type: none"> <li>• Explain microsegmentation</li> </ul>	<ul style="list-style-type: none"> <li>• Explain API concepts</li> </ul>
<ul style="list-style-type: none"> <li>• Outline WAN Edge templates and hub profiles</li> </ul>	<ul style="list-style-type: none"> <li>• Outline the Juniper Mist EVPN Campus Fabric Wizard</li> </ul>	<ul style="list-style-type: none"> <li>• Describe the Juniper Mist RESTful API</li> </ul>
<ul style="list-style-type: none"> <li>• Describe Application Steering and SD-WAN policies</li> </ul>	12 Juniper Mist Wired Assurance—Management and Monitoring	<ul style="list-style-type: none"> <li>• Describe the Juniper Mist WebSocket API</li> </ul>
<ul style="list-style-type: none"> <li>• Outline secure services edge integrations</li> </ul>	<ul style="list-style-type: none"> <li>• Define Day 2+ expectations</li> </ul>	19 Juniper Mist Documentation and Support
Day 2	<ul style="list-style-type: none"> <li>• Describe wired insights, SLEs, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Explain Juniper Mist documentation</li> </ul>
7 Juniper Mist WAN Assurance—Management and Monitoring	<ul style="list-style-type: none"> <li>• Describe Marvis Actions for Juniper switches</li> </ul>	<ul style="list-style-type: none"> <li>• Outline how to create support tickets</li> </ul>
<ul style="list-style-type: none"> <li>• Explain Session Smart SD-WAN SLEs</li> </ul>	Lab 3: Wired Assurance	<ul style="list-style-type: none"> <li>• Explain feature requests</li> </ul>
<ul style="list-style-type: none"> <li>• Describe Marvis Actions and WAN Edge Insights for SD-WAN</li> </ul>	Day 3	Lab 5: Troubleshooting and Juniper Mist Help
<ul style="list-style-type: none"> <li>• Outline WAN user experiences and application-based context</li> </ul>	13 Juniper Mist Wireless Assurance—Day 0 Expectations	
	<ul style="list-style-type: none"> <li>• Define Day 0 expectations</li> </ul>	

- Outline the configuration of sites, WLAN templates, WLANs, and VLANs

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#### Additional Information:

Delegates will receive e-kit courseware.

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#### Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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