



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**CODE: LENGTH: PRICE:**

JUN\_AJMA 40 Hours (5 days) £3,995.00

## Description

This advanced five-day course explores how to configure and manage a distributed enterprise. The distributed enterprise includes Juniper Mist AI solutions for Juniper Mist™ WAN Assurance, Juniper Mist™ Wired Assurance, Juniper Mist™ Wi-Fi Assurance, and Juniper Mist Access Assurance. Users can deploy and manage distributed enterprises from the Juniper Mist™ GUI, automation methods, or a combination of both. Key topics include automation tools and methodologies as applied to Juniper Mist AI solutions. Through demonstrations and hands-on labs, students will gain experience with the features of Juniper Networks® EX Series Switches, Juniper Networks® SSR Series Routers, wireless access points, and the Juniper Mist GUI and APIs. Students will also acquire experience with Juniper Mist features in a programmatic way.

## Objectives

- Associate AIOps to the distributed enterprise network.
- Summarize the distributed enterprise network with Juniper Mist AI.
- Explain the automation options for Juniper Mist.
- Refresh your Python basics.
- Explain how JSON and YAML are used for automation.
- Describe data templating with Jinja2.
- Describe how JupyterLab is used.
- Evaluate REST API tools and their uses.
- Use the Juniper Mist REST API with Python.
- Automate Juniper Mist Day 1 operations with Python.
- Execute Juniper Mist configuration with webhooks.
- Summarize 802.1x and EAP authentication.
- Examine RADIUS configuration and integration with Juniper Mist.
- Review Juniper Mist Access Assurance.
- Integrate Juniper Mist Edge with Juniper Mist Access Assurance.
- Implement security to a distributed enterprise network with Juniper Mist.
- Deploy a distributed enterprise architecture.
- Manage Day 2+ operations with the Mist API.

## Audience

Individuals responsible for accessing and using Mist AI data for business intelligence and operations

## Prerequisites

- Basic networking (wired and wireless) knowledge
- Understanding of OSI reference model and the TCP/IP protocol suite
- Experience with Juniper Mist products and solutions
- Basic automation and scripting knowledge, Python knowledge recommended
- Completion of the following courses:
  - Introduction to Juniper Platform Automation and NetDevOps
  - Deploying and Managing Wireless Networks with Juniper Mist AI
  - Deploying and Managing Wired Networks for Campus and Branch with Juniper Mist AI

## Programme

### DAY 1

#### 1 Associating AIOps to the Distributed Enterprise Network

- Define the requirements of a distributed enterprise network
- Compare AI and ML terminology
- Explain the basics of machine learning
- Define AIOps and its goals

#### 2 Summarizing the Distributed Enterprise Network with Juniper Mist AI

- Explain the key concepts and terminology used in distributed networks
- Describe the components, portfolio, use cases, and architectures of Juniper Mist enterprise distributed networks
- Describe the Juniper Mist WAN Edge and AI-driven SD-WAN Assurance solution

#### 3 Automation Options for Juniper Mist

- Define Juniper Mist Wired Assurance
- Define Juniper Mist Wireless Assurance
- Explain Juniper Mist Access Assurance
- Examine Marvis VNA for data center
- Define Juniper Mist Routing Assurance
- Explain Juniper Validated Designs

#### 4 Python Automation Toolkit, Part 1

- Refresh your Python Basics

#### 5 Python Automation Toolkit, Part 2

- Explain how JSON and YAML are used for automation
- Describe data templating with Jinja2

### DAY 2

#### 6 Python Automation Toolkit, Part 3

- Describe how JupyterLab is used

#### Lab 1: Creating Jinja2 Templates and Introducing JupyterLab

#### 7 Evaluating REST API Tools and Their Uses

- Review API tools and their uses
- Compare API tools and their use cases with Juniper Mist API

#### Lab 2: Using Basic Development Tools to Interact with the Juniper Mist REST API

#### 8 Using the Juniper Mist REST API with Python

- Explain how to interact with the Mist API using Python requests
- Explain how to use the Mist API Python package

#### Lab 3: Performing Juniper Mist Operations with Python and the REST API

#### 9 Automating Juniper Mist Day 1 Operations with Python

- Review the requirements for the Day 1 deployment
- Review the steps required to automate the deployment

#### Lab 4: Performing Juniper Mist Day 1 Operations using Python and the Juniper Mist REST API

#### 10 Executing Juniper Mist Configuration with Webhooks

- Define a webhook API
- Describe how to use the Juniper Mist webhook API
- Describe the set of features available through the webhook API used by Juniper Mist

#### Lab 5: Executing Juniper Mist Webhooks

### DAY 3

#### 11 Summarizing 802.1x and EAP Authentication

- List the components of AAA
- Explain 802.1X operations
- Describe EAP operations
- Explain the different EAP types
- Describe How RADIUS works
- Describe RADIUS attributes (AVPs) and their uses
- Describe the RADIUS protocol and server

#### 12 Examining RADIUS Configuration and Integration with Juniper Mist

- Explain how to integrate a third-party RADIUS server into Juniper Mist
- Explore the steps required to integrate ClearPass with Juniper Mist
- Analyze the correlation between RADIUS attribute labels and Juniper Mist and examine the outcomes of access requests
- Describe how SAML can integrate third-party identity providers with Juniper Mist

#### 13 Reviewing Juniper Mist Access Assurance

- Define the zero-trust model
- Describe the Juniper Mist Access Assurance solution

- Define Juniper Mist Access Assurance and the supporting architecture and components

#### DAY 4

##### 14 Integrating Juniper Mist Edge with Juniper Mist Access Assurance

- Define the features and benefits of Juniper Mist Edge
- Describe the Mist Edge installation
- Explain Mist Edge as a RADIUS server proxy
- Explain Mist Edge as a NAC proxy
- Summarize the DHCP relay service
- Review the Edge management

##### 15 Implementing Security to a Distributed Enterprise Network with Juniper Mist

- List the security components in a distributed enterprise network
- Describe Juniper Mist WAN Edge SSR security features
- Describe Juniper Mist wireless security features
- Describe Juniper Mist policy configurations
- Discuss the Juniper Mist alerts options
- Review Juniper Mist's Premium Analytics security reports

##### Lab 6: Configuring Application Policy and Traffic Steering with Templates

##### 16 Deploying a Distributed Enterprise Architecture

- Review the requirements for the Day 1 deployment
- Review the steps required to automate the deployment

##### Lab 7: Configuring Intersite Connectivity with Templates and Python

### Follow on courses

#### RELATED JUNIPER PRODUCTS

- EX Series
- SRX Series
- Network Design
- Mist AI
- Session Smart Routers

### Test and Certification

#### RELATED CERTIFICATION

JNCIP-MistAI

### Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
09 Feb 2026	Virtual Training Class - TP	GMT	English	Classroom		£3,995.00
18 May 2026	Virtual Training Class - TP	BST	English	Classroom		£3,995.00

### Additional Information

This training is also available as onsite training. Please contact us to find out more.