Juniper Networks learning paths

Juniper Networks Education Services

November 2023
Juniper Networks Certification Program framework and additional courses

Information as of November 2023. Refer to [www.juniper.net/certification](http://www.juniper.net/certification) for the most current information.
Juniper Networks
Junos-Based Curriculum

Service Provider Routing & Switching
- **JNCIE-SP**
- JNCIE-SP Self-Study Bundle
- **JNCIP-SP**
  - Junos Layer 2 VPNs
  - Junos Layer 3 VPNs
  - Advanced Junos Service Provider Routing
- **JNCIS-SP**
  - Junos MPLS Fundamentals
  - Junos Service Provider Switching
  - Junos Intermediate Routing
- **JNCIA-Junos**
  - Introduction to the Junos Operating System
  - Getting Started with Networking

Enterprise Routing & Switching
- **JNCIE-ENT**
- JNCIE-ENT Self-Study Bundle
- **JNCIP-ENT**
  - Advanced Junos Enterprise Switching
  - Advanced Junos Enterprise Routing
- **JNCIS-ENT**
  - Junos Enterprise Switching
  - Junos Intermediate Routing

Data Center
- **JNCIE-DC**
- JNCIE-DC Self-Study Bundle
- **JNCIP-DC**
  - Data Center Fabric with EVPN and VXLAN
- **JNCIS-DC**
  - Data Center Automation using Juniper Apstra
- **JNCIA-DC**
  - Introduction to Juniper Data Center Networking

Network Security
- **JNCIE-SEC**
- JNCIE-SEC Self-Study Bundle
- **JNCIP-SEC**
  - Advanced Juniper Security
- **JNCIS-SEC**
  - Juniper Security
- **JNCIA-SEC**
  - Introduction to Juniper Security

Notes: Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Juniper Networks Curriculum
Service provider routing and switching

- Juniper Networks Certified Expert, Service Provider Routing and Switching (JNCIE-SP)
  - JNCIE-SP Self-Study Bundle
    - On-Demand

- Juniper Networks Certified Professional, Service Provider Routing and Switching (JNCIP-SP)
  - Junos Layer 2 VPNs
    - 3 days
    - On-Demand
  - Junos Layer 3 VPNs
    - 3 days
    - On-Demand
  - Advanced Junos Service Provider Routing
    - 5 days
    - On-Demand

- Juniper Networks Certified Specialist, Service Provider Routing and Switching (JNCIS-SP)
  - Junos MPLS Fundamentals
    - 3 days
    - On-Demand
  - Junos Service Provider Switching
    - 2 days
    - On-Demand
  - Junos Intermediate Routing
    - 2 days
    - On-Demand

- Junos Troubleshooting
  - 2 days

- Juniper Networks Certified Associate, Junos (JNCIA-Junos)
  - Introduction to the Junos Operating System
    - 3 days
    - On-Demand
  - Getting Started with Networking
    - 5 hours

Notes: Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
## Juniper Networks Curriculum

### WAN Technologies

<table>
<thead>
<tr>
<th>Juniper Paragon Automation for the WAN</th>
<th>4 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paragon Active Assurance for Automated WAN</td>
<td>2 days</td>
</tr>
<tr>
<td>Introduction to Paragon Active Assurance</td>
<td>1 hour</td>
</tr>
<tr>
<td>Implementing Cloud-Delivered Juniper Paragon Automation</td>
<td>2 days</td>
</tr>
<tr>
<td>Junos OS Evolved for Cloud Networking</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos Multicast Routing</td>
<td>2 days</td>
</tr>
<tr>
<td>Junos IP version 6</td>
<td>2 days</td>
</tr>
<tr>
<td>Circuit to Packet</td>
<td>On-Demand</td>
</tr>
<tr>
<td>Junos Segment Routing</td>
<td>1 day On-Demand</td>
</tr>
<tr>
<td>DiffServ-Aware MPLS Traffic Engineering</td>
<td>1 day</td>
</tr>
<tr>
<td>Junos Class of Service</td>
<td>2 days On-Demand</td>
</tr>
<tr>
<td>Junos Subscriber Management</td>
<td>4 days On-Demand</td>
</tr>
<tr>
<td>Juniper SD-WAN with Mist AI</td>
<td>2 Days</td>
</tr>
</tbody>
</table>

### Related Training

- Juniper SD-WAN with Mist AI
- Paragon Active Assurance for Automated WAN
- Junos Paragon Automation for the WAN
- Junos Multicast Routing
- Junos IP version 6
- Circuit to Packet
- Junos Segment Routing
- DiffServ-Aware MPLS Traffic Engineering

**Notes:** Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.

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## Juniper Networks Curriculum

### Enterprise routing and switching

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juniper Networks Certified Expert, Enterprise Routing and Switching (JNCIE-ENT)</td>
<td>JNCIE-ENT Self-Study Bundle, On-Demand</td>
</tr>
<tr>
<td>Juniper Networks Certified Professional, Enterprise Routing and Switching (JNCIP-ENT)</td>
<td>Advanced Junos Enterprise Switching, 2 days, On-Demand; Advanced Junos Enterprise Routing, 5 days, On-Demand</td>
</tr>
<tr>
<td>Juniper Networks Certified Specialist, Enterprise Routing and Switching (JNCIS-ENT)</td>
<td>Junos Enterprise Switching, 2 days, On-Demand; Junos Intermediate Routing, 2 days, On-Demand; Optional: Continue to Juniper Networks Certified Professional, Data Center (JNCIP-DC)</td>
</tr>
<tr>
<td>Juniper Networks Certified Associate, Junos (JNCIA-Junos)</td>
<td>Introduction to the Junos Operating System, 3 days, On-Demand; Getting Started with Networking, 5 hours, On-Demand</td>
</tr>
</tbody>
</table>

### Related Training

- **Juniper Wireless Networks with Mist AI**: 4 days
- **Juniper Campus Networks with Mist AI**: 2 days
- **Juniper Networks Campus Switching with Mist AI**: 2 hours
- **Juniper Session Smart SD-WAN**: 4 days
- **Cert Prep: Migrating from the Cisco CCNA to the JNCIA-Junos**: 7 hours
- **Juniper Switching for Cisco Engineers**: 3 hours
- **Junos IP version 6**: 2 days

### Automation and DevOps Learning Path

- **Getting Started with Networking**: 5 hours

### Notes:
- Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
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Juniper Networks Curriculum

Data center

**Juniper Networks Certified Expert, Data Center (JNCIE-DC)**
- JNCIE-DC Self-Study Bundle
  - On-Demand

**Juniper Networks Certified Professional, Data Center (JNCIP-DC)**
- Data Center Fabric with EVPN and VXLAN
  - 5 days
  - On-Demand

**Juniper Networks Certified Specialist, Enterprise Routing and Switching (JNCIS-ENT)**
- Junos Enterprise Switching
  - 2 days
  - On-Demand
- Junos Intermediate Routing
  - 2 days
  - On-Demand

**Juniper Networks Certified Associate, Junos (JNCIA-Junos)**
- Introduction to the Junos Operating System
  - 3 days
  - On-Demand
- Getting Started with Networking
  - 5 hours

**Juniper Networks Certified Specialist, Data Center (JNCIS-DC)**
- Data Center Automation Using Juniper Apstra
  - 5 days

**Juniper Networks Certified Associate, Data Center (JNCIA-DC)**
- Introduction to Juniper Data Center Networking
  - 3 days
  - On-Demand

**Related Training**

**Automation and DevOps Learning Path**
- Introduction to Juniper Apstra
  - 1 hour
- Junos OS Evolved for Cloud Networking
  - 3 days

**Notes:**
1. The Introduction to the Junos Operating System course is recommended before taking the Introduction to Juniper Data Center Networking course.
2. The JNCIA-DC or JNCIS-ENT meet the prerequisite for the JNCIC-DC.
3. Students should have extensive experience with EVPN and VXLAN or take the Data Center Fabric with EVPN and VXLAN course before attending the Data Center Automation Using Juniper Apstra Freeform course.

Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
**Juniper Networks Curriculum**

**Security**

### Service Provider Security
- Juniper Service Provider Edge Security
  - 3 days

### Public Cloud Security
- Deploying Juniper Security in AWS and Azure
  - 4 days

### Network Security
- Juniper Networks Certified Professional, Security (JNCIP-SEC)
  - 4 days
- Advanced Juniper Security
- Juniper Networks Certified Specialist, Security (JNCIS-SEC)
  - 5 days
- Juniper Networks Certified Associate, Security (JNCIA-SEC)
  - 3 days

### SASE
- Deploying Juniper Security Service Edge
  - 3 days
- Juniper SD-WAN with Mist AI
  - 2 days
- Implementing Juniper Networks Secure Analytics
  - 3 days

### Management and Analytics
- Junos Space—Security Director
  - 2 days

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**Notes:** Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.

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## Juniper Networks Curriculum

### Cloud Technologies

<table>
<thead>
<tr>
<th>Open-Source Cloud Technologies</th>
<th>Cloud Core Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat, OpenShift, Kubernetes, Docker in Cloud Deployments</td>
<td><strong>Juniper Networks Certified Associate, Cloud (JNCIA-Cloud)</strong></td>
</tr>
<tr>
<td>4 days</td>
<td><strong>Juniper Cloud Fundamentals</strong></td>
</tr>
<tr>
<td></td>
<td>3 days On-Demand</td>
</tr>
<tr>
<td></td>
<td><strong>Getting Started with Cloud</strong></td>
</tr>
<tr>
<td></td>
<td>4 hours</td>
</tr>
</tbody>
</table>

### Notes:
1. Attendance of the [Introduction to the Junos Operating System](#) course is strongly recommended prior to the Juniper Cloud Fundamentals course. Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
Notes: 1. See Data Center learning path for complete data center training and certification details. Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Juniper Networks Curriculum
Mist AI

Notes: 1. The Juniper Networks Campus Switching with Mist AI course is a recommended prerequisite to the Deploying and Managing Juniper Wired Networks for Campus and Branch with Mist AI course. Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
# Juniper Networks Curriculum

## Design

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juniper Networks Certified Associate, Design</td>
<td>Juniper Networks Design Fundamentals</td>
</tr>
</tbody>
</table>

Notes: Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
## Juniper Networks Curriculum

### Support

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Junos Troubleshooting</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos Troubleshooting</td>
<td>2 days</td>
</tr>
<tr>
<td>Introduction to the Junos Operating System</td>
<td>3 days</td>
</tr>
<tr>
<td>Juniper Technical Support Fundamentals</td>
<td>2 days</td>
</tr>
<tr>
<td>Getting Started with Networking</td>
<td>5 hours</td>
</tr>
</tbody>
</table>

**Note:** The professional-level courses in the Service Provider Routing and Switching, Enterprise Routing and Switching, and Junos Security learning paths contain additional troubleshooting training.

**Notes:** Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
Juniper Networks Curriculum

Junos Space

Notes: Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
## Juniper Networks Curriculum

### Getting started

<table>
<thead>
<tr>
<th>Course</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Getting Started with Networking</td>
<td>5 hours</td>
</tr>
<tr>
<td>Getting Started with Cloud</td>
<td>4 hours</td>
</tr>
<tr>
<td>Getting Started with Wi-Fi</td>
<td>2 hours</td>
</tr>
<tr>
<td>Getting Started with 5G</td>
<td>TBD</td>
</tr>
<tr>
<td>Getting Started with Telco Cloud</td>
<td>TBD</td>
</tr>
</tbody>
</table>

**Note:** These courses teach foundational, industry-standard content and are not-related to each other. They may be taken in any order.

**Notes:** Information current as of November 2023. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
Delivery methods

Private Training - Standard or Customized Delivery: [www.juniper.net/privatetraining](http://www.juniper.net/privatetraining)
Contact us: training-amer@juniper.net, training-emea@juniper.net, or training-apac@juniper.net
Juniper will host a private, instructor-led class for up to 16 students. Training can be delivered at a customer’s facility, virtually (remote instructor and remote students), or a blend of both onsite with remote students. Private classes can be customized based on the client’s exact needs.

On-Demand Courses: [www.juniper.net/ondemand](http://www.juniper.net/ondemand)
Each course includes self-paced, eLearning modules along with access to real online lab exercises. Students perform the same detailed lab exercises that are taught in instructor-led classes. Courses include six months of access to the materials and lab environment.

Open Enrollment Classes: [www.juniper.net/courses](http://www.juniper.net/courses)
Juniper and/or its Authorized Education Partners host public classrooms in which the customer can send one or more students to attend. Training will be attended either virtually or at a Juniper or Education Partner's facility.

All-Access Training Pass: [www.juniper.net/allaccess](http://www.juniper.net/allaccess)
Access to all instructor-led and On-Demand Juniper courses, for one low price, for a full year. Available for individuals, teams, and enterprises.