Juniper Networks Certification Program Framework

- **Routing and Switching**
  - JNCIE-SP
  - JNCIE-ENT
  - JNCIE-DC
  - JNCIE-SEC

- **Data Center**
  - JNCIE-DC
  - JNCIE-SEC
  - JNCIS-SEC

- **Security**
  - JNCIE-SEC
  - JNCIP-SEC
  - JNCIS-SEC

- **Cloud**
  - JNCIP-ENT-Cloud*
  - JNCIP-ENT-Cloud**
  - JNCIP-ENT-Cloud***

- **Automation and DevOps**
  - JNCIP-DevOps*
  - JNCIP-DevOps**

- **Design**
  - JNCDS-DC, WAN, SEC
  - JNCDIA

Information as of September 2017. *In planning. **Formerly known as JNCIS-SDNA. Refer to [www.juniper.net/certification](http://www.juniper.net/certification) for the most current information.
Juniper Networks Curriculum—Service Provider Routing and Switching

Introduction to the Junos Operating System (IJOS)
- Networking Fundamentals: 5 hours

JNCIE-SP Bootcamp: 5 days
- JPR-960 Service Provider Routing and Switching, Expert (JNCIE-SP)
- JN0-661 Service Provider Routing and Switching, Professional (JNCIP-SP)
- JN0-360 Service Provider Routing and Switching, Specialist (JNCIS-SP)

Junos Multicast Routing (JMR)
- JN0-102 Junos, Associate (JNCIA-Junos)

Junos Class of Service (JCOS)
- 2 days

Advanced Junos Service Provider Routing (AJSPR)
- 5 days

Junos Layer 3 VPNs (JL3V)
- 3 days

Junos Layer 2 VPNs (JL2V)
- 2 days

Junos MPLS Fundamentals (JMF)
- 2 days

Junos Service Provider Switching (JSPX)
- 2 days

Junos Intermediate Routing (JIR)
- 2 days or On-Demand

Junos Troubleshooting in the NOC (JTNOC)
- 3 days

Junos Edge Security Services (JESS)
- 2 days

Junos Subscriber Management (JSM)
- 3 days

Junos Platform Automation and DevOps (JAUT)
- 5 days

Creating and Maintaining Optical Transport Services using the BTI7800 Series
- 2 days

Creating and Maintaining Optical Transport and MEF Services using the BTI7000 Series
- 3 days

Notes: Information current as of September 2017. 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—Enterprise Routing and Switching

**Juniper Networks Certified Associate Junos (JNCIA-Junos)**
- JN0-102 Junos, Associate (JNCIA-Junos)

**Introduction to the Junos Operating System (IJOS)**
- 3 days or On-Demand

**Networking Fundamentals**
- 5 hours

**Advanced Junos Enterprise Switching (AJEX)**
- 2 days

**Advanced Junos Enterprise Routing Using Enhanced Layer 2 Software (AJEX-ELS)**
- 2 days

**Advanced Junos Enterprise Routing (AJER)**
- 4 days

**Juniper Networks Certified Expert Enterprise Routing and Switching (JNCIE-ENT)**
- JPR-943 Enterprise Routing and Switching, Expert (JNCIE-ENT)

**Juniper Networks Certified Professional Enterprise Routing and Switching (JNCIP-ENT)**
- JN0-643 Enterprise Routing and Switching, Professional (JNCIP-ENT)
- or
- JN0-646 Enterprise Routing and Switching, Professional (JNCIP-ENT)

**Juniper Networks Certified Specialist Enterprise Routing and Switching (JNCIS-ENT)**
- JN0-343 Enterprise Routing and Switching, Specialist (JNCIS-ENT)
- or
- JN0-347 Enterprise Routing and Switching, Specialist (JNCIS-ENT)

**Juniper Networks Certified Professional Enterprise Routing and Switching (JNCIP-ENT)**
- JPR-943 Enterprise Routing and Switching, Expert (JNCIP-ENT)

**Optional: Continue to Juniper Networks Certified Professional, Data Center (JNCIP-DC)**

**Junos Troubleshooting in the NOC (JTNOC)**
- 3 days

**Junos Platform Automation and DevOps (JAUT)**
- 5 days

**Notes:** Information current as of September 2017. 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—Security

- **JNCIE-SEC Bootcamp** 5 days
- **Advanced Junos Security (AJSEC)** 5 days
- **Junos Security (JSEC)** 5 days
- **Introduction to the Junos Operating System (IJOS)** 3 days or On-Demand
- **Networking Fundamentals** 5 hours

**Certification Courses**
- **Juniper Networks Certified Professional Security (JNCIP-SEC)** (JN0-634 Security, Professional (JNCIP-SEC))
- **Juniper Networks Certified Specialist Security (JNCIS-SEC)** (JN0-333 Security Specialist (JNCIS-SEC))
- **Juniper Networks Certified Associate Junos (JNCIA-Junos)** (JN0-102 Junos, Associate (JNCIA-Junos))

**Additional Training**
- **Juniper Networks Design—Security (JND-SEC)** 5 days
- **Junos Space—Security Director (JS-SD)** 2 days
- **Implementing Juniper Networks Secure Analytics (IJSA)** 3 days
- **Configuring Steel-Belted Radius Carrier (CSBR)** 2 days

**Notes:** Information current as of September 2017. 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—Junos-Based Curriculum

Service Provider Routing & Switching
- JNCIE–SP
- JNCIE–SP Bootcamp
- JNCIP–SP
  - Junos Multicast Routing (JMR)
  - Junos Class of Service (JCOS)
  - Advanced Junos Service Provider Routing (AJSPR)
  - Junos Layer 3 VPNs (JL3V)
  - Junos Layer 2 VPNs (JL2V)

Enterprise Routing & Switching
- JNCIE–ENT
- JNCIE–ENT Bootcamp
- JNCIP–ENT
  - Advanced Junos Enterprise Switching (AJEX)
  - Advanced Junos Enterprise Switching Using Enhanced Layer 2 Software (AJEX-ELS)
  - Advanced Junos Enterprise Routing (AJER)
- JNCIS–ENT
  - Junos Enterprise Switching Using ELS (JEX-ELS)
  - Junos Enterprise Switching (JEX)
  - Junos Intermediate Routing (JIR)

Data Center
- JNCIE–DC
- JNCIP–DC
  - Advanced Junos Enterprise Switching Using Enhanced Layer 2 Software (AJEX-ELS)
  - Advanced Data Center Switching (ADCX)

Junos Security
- JNCIE–SEC
- JNCIE–SEC Bootcamp
- JNCIP–SEC
  - Advanced Junos Security (AJSEC)
- JNCIS–SEC
  - Junos Security (JSEC)

Junos Intermediate Routing
- JNCIA–Junos
  - Introduction to the Junos Operating System (IJOS)
  - Networking Fundamentals

Notes: Information current as of September 2017. 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—Data Center

Juniper Networks Certified Expert Data Center (JNCIE-DC)
- JPR-980 Data Center, Expert (JNCIE-DC)

Juniper Networks Certified Professional Data Center (JNCIP-DC)
- JN0-680 Data Center, Professional (JNCIP-DC)

Advanced Data Center Switching (ADCX) 5 days

Juniper Networks Certified Specialist Enterprise Routing and Switching (JNCIS-ENT) or equivalent knowledge.

Additional Training
- Junos Platform Automation and DevOps (JAUT) 5 days

Notes: Information current as of September 2017. 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—Cloud

Network Automation in the Enterprise Cloud (NAEC)***
3 days

Network Automation Using (Open) Contrail Cloud (NACC)
5 days

Juniper Networks Certified Professional Enterprise Cloud (JNCIP-ENT-Cloud)**

Juniper Networks Certified Specialist Enterprise Cloud (JNCIS-ENT-Cloud)*

Juniper Networks Certified Associate Cloud (JNCIA-Cloud)**

Juniper Networks Cloud Fundamentals (JCF)**†
3 days

Network Automation in the Service Provider Cloud (NASP)**
5 days

Juniper Networks Certified Specialist Service Provider Cloud (JNCIS-SP-Cloud)**

Notes:
* Formerly known as Juniper Networks Certified Specialist – SDN and Automation (JNCIS-SDNA). **In planning. Information current as of September 2017. *** Formerly known as Network Automation in the Data Center (NA-DC). Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information. †Attendance of Introduction to the Junos Operating System (IJOS) course is strongly recommended prior to the JCF course.
Juniper Networks Curriculum—Automation and DevOps

Juniper Networks Certified Associate Junos (JNCIA-Junos)
JN0-102 Junos, Associate (JNCIA-Junos)

Introduction to the Junos Operating System (IJOS)
3 Days or On-Demand

Networking Fundamentals
5 hours

Juniper Networks Certified Specialist Automation and DevOps (JNCIS-DevOps)*

Juniper Networks Certified Professional Automation and DevOps (JNCIP-DevOps)*

Advanced Junos Platform Automation and DevOps (AJAUT)*
TBD days

Junos Platform Automation and DevOps (JAUT)
5 days

Additional Automation Training

<table>
<thead>
<tr>
<th>Course</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Automation in the WAN (NA-WAN)</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos SDK Overview</td>
<td>2 hours</td>
</tr>
<tr>
<td>Junos as a Scripting Language</td>
<td>4 hours</td>
</tr>
<tr>
<td>Junos Space Essentials (JSE)</td>
<td>2 days</td>
</tr>
<tr>
<td>Junos Space Security Director (JS-SD)</td>
<td>2 days</td>
</tr>
<tr>
<td>Junos Space Network Director (JS-ND)</td>
<td>1 day</td>
</tr>
<tr>
<td>Juniper Learning Bytes</td>
<td>Varies</td>
</tr>
</tbody>
</table>

Notes: *In planning. Information current as of September 2017. 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—Design Curriculum

Data Center Design Track

- Juniper Networks Certified Design Specialist, Data Center (JNCDS-DC)
- JN0-1300 Design, Specialist, Data Center (JNCDS-DC)
- Juniper Networks Design—Data Center (JND-DC) 5 days

WAN Design Track

- Juniper Networks Certified Design Specialist, WAN (JNCDS-WAN)
- JN0-1360 Design, Specialist, WAN (JNCDS-WAN)
- Juniper Networks Design—WAN (JND-WAN) 5 days

Security Design Track

- Juniper Networks Certified Design Specialist, Security (JNCDS-SEC)
- JN0-1330 Design, Specialist, Security (JNCDS-SEC)
- Juniper Networks Design—Security (JND-SEC) 5 days

Certification

Exam

Course

Notes: Information current as of September 2017. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Curriculum Product-Specific Training

Training and certifications available for…

- Firewall/VPN
- QFabric
- Junos Space
# Juniper Networks Curriculum—Firewall/VPN

<table>
<thead>
<tr>
<th>Course</th>
<th>Days</th>
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</thead>
<tbody>
<tr>
<td>Attack Prevention with Juniper Networks Firewalls (APJF)</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Juniper Networks IPsec VPN Implementations (AJVI)</td>
<td>2</td>
</tr>
<tr>
<td>Integrating Juniper Networks Firewalls and VPNs into High-Performance Networks (IFVH)</td>
<td>3</td>
</tr>
<tr>
<td>Configuring Juniper Networks Firewall/IPsec VPN Products (CJFV)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Notes:** Information current as of September 2017. 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—QFabric

**Juniper Networks Certified Specialist, QFabric (JNCIS-QF)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN0-370 QFabric, Specialist (JNCIS-QF)</td>
<td>2 days</td>
</tr>
<tr>
<td>Troubleshooting QFabric Systems (TQS)</td>
<td>2 days</td>
</tr>
<tr>
<td>Configuring and Monitoring QFabric Systems (CMQS)</td>
<td>2 days</td>
</tr>
</tbody>
</table>

**Juniper Networks Certified Specialist, Enterprise (JNCIS-ENT)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN0-370 QFabric, Specialist (JNCIS-QF)</td>
<td>2 days</td>
</tr>
<tr>
<td>Troubleshooting QFabric Systems (TQS)</td>
<td>2 days</td>
</tr>
<tr>
<td>Configuring and Monitoring QFabric Systems (CMQS)</td>
<td>2 days</td>
</tr>
</tbody>
</table>

**Exam Certification Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>JN0-370 QFabric, Specialist (JNCIS-QF)</td>
<td>2 days</td>
</tr>
<tr>
<td>Troubleshooting QFabric Systems (TQS)</td>
<td>2 days</td>
</tr>
<tr>
<td>Configuring and Monitoring QFabric Systems (CMQS)</td>
<td>2 days</td>
</tr>
</tbody>
</table>

**Related Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>QFabric System Installation and Initial Configuration</td>
<td>8 hours</td>
</tr>
<tr>
<td>QFX3600 Node Device Overview and Deployment</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>QFX3500 Switch Installation and Initial Hardware Configuration</td>
<td>1.5 hours</td>
</tr>
</tbody>
</table>

**Notes:** The JNCIS-ENT certification is a pre-requisite to the JNCIS-QF certification. Information current as of September 2017. 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 September 2017. 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—Support

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Junos Troubleshooting in the NOC (JTNOC)</td>
<td>3 days</td>
</tr>
<tr>
<td>Introduction to the Junos Operating System</td>
<td>3 days or</td>
</tr>
<tr>
<td>(IJOS)</td>
<td>On-Demand</td>
</tr>
<tr>
<td>Networking Fundamentals</td>
<td>5 hours</td>
</tr>
</tbody>
</table>

Notes: Information current as of September 2017. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Thank you