JUNIPER NETWORKS CERTIFICATION PROGRAM FRAMEWORK

- **Routing and Switching**
  - JNCIE-SP
  - JNCIE-ENT
- **Data Center**
  - JNCIE-DC
  - JNCIS-DC
- **Security**
  - JNCIE-SEC
  - JNCIS-SEC
- **Cloud**
  - JNCIP-ENT-Cloud*, SP-Cloud*
  - JNCIS-Cloud
  - JNCIS-DevOps
- **Automation and DevOps**
  - JNCIP-DevOps*
  - JNCIS-DevOps
  - JNCDA
- **Design**
  - JNCIE
  - JNCIS
  - JNCIA

- **Professional**
  - JNCIP-SP
  - JNCIP-ENT
  - JNCIP-DC
  - JNCIP-SEC

- **Expert**
  - JNCIE-SP
  - JNCIE-ENT
  - JNCIE-DC
  - JNCIE-SEC

- **Associate**
  - JNCIA-Junos
  - JNCIA-Junos
  - JNCIA-Junos
  - JNCIA

Information as of December 2018. *In planning. Refer to www.juniper.net/certification 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)

- JNCIS–SP
  - Junos MPLS Fundamentals (JMF)
  - Junos Service Provider Switching (JSPX)
  - Junos Intermediate Routing (JIR)

Enterprise Routing & Switching

- JNCIE–ENT
  - JNCIE–ENT Bootcamp

- JNCIP–ENT
  - Advanced Junos Enterprise Switching (AJEX)
  - Advanced Junos Enterprise Routing (AJER)

- JNCIS–ENT
  - Junos Enterprise Switching (JEX)
  - Junos Intermediate Routing (JIR)

Data Center

- JNCIE–DC
  - Advanced Data Center Switching (ADCX)

- JNCIP–DC
  - Advanced Junos Security (AJSEC)

- JNCIS–DC
  - Advanced Junos Security (AJSEC)

Junos Security

- JNCIE–SEC
  - JNCIE–SEC Bootcamp

- JNCIP–SEC
  - Advanced Junos Security (AJSEC)

- JNCIS–SEC
  - Junos Security (JSEC)

Notes: Information current as of December 2018. 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

JNCIE–SP Bootcamp 5 days

Juniper Networks Certified Expert Service Provider Routing and Switching (JNCIE-SP)
JPR-960 Service Provider Routing and Switching, Expert (JNCIE-SP)

Juniper Networks Certified Professional Service Provider Routing and Switching (JNCIP-SP)
JN0-662 Service Provider Routing and Switching, Professional (JNCIP-SP)

Junos Multicast Routing (JMR)* 2 days
Junos Class of Service (JCOS)* 2 days
Advanced Junos Service Provider Routing (AJSPR) 5 days or On-Demand
Junos Layer 3 VPNs (JL3V) 3 days or On-Demand
Junos Layer 2 VPNs (JL2V) 2 days

Juniper Networks Certified Specialist Service Provider Routing and Switching (JNCIS-SP)
JN0-361 Service Provider Routing and Switching, Specialist (JNCIS-SP)

Junos MPLS Fundamentals (JMF) 2 days or On-Demand
Junos Service Provider Switching (JSPX) 2 days
Junos Intermediate Routing (JIR) 2 days or On-Demand

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

Cert Prep: Migrating from the Cisco CCNA to the JNCIA-Junos 5 hours
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 and MEF Services using the BTI7000 Series 3 days
Creating and Maintaining Optical Transport Services using the BTI7800 Series 2 days

Notes: *Not required training for the JN0-662 exam. Information current as of December 2018. 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)
Introduction to the Junos Operating System (JOS) 3 days or On-Demand
Networking Fundamentals 5 hours

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

Juniper Networks Certified Professional Enterprise Routing and Switching (JNCIP-ENT)
JN0-647 Enterprise Routing and Switching, Professional (JNCIP-ENT)

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

JPR-943 Enterprise Routing and Switching, Expert (JNCIE-ENT)

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

Juniper Networks Certified Expert
Enterprise Routing and Switching (JNCIE-ENT)

Advanced Junos Enterprise Switching (AJEX) 2 days or On-Demand
Advanced Junos Enterprise Routing (AJER) 4 days or On-Demand

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

Junos Troubleshooting in the NOC (JTNOC) 4 days

Cert Prep: Migrating from the Cisco CCNA to the JNCIA-Junos 5 hours

Junos Platform Automation and DevOps (JAUT) 5 days

Additional Training

Notes: Information current as of December 2018. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Advanced Data Center Switching (ADCX)  5 days

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

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

Additional Training

Junos Platform Automation and DevOps (JAUT)  5 days

Juniper Networks Design—Data Center (JND-DC)  5 days

Notes: Information current as of December 2018. 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

JNCIE–SEC Bootcamp 5 days

Advanced Junos Security (AJSEC) 5 days

Junos Security (JSEC) 5 days or On-Demand

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

Networking Fundamentals 5 hours

Juniper Networks Certified Expert Security (JNCIE-SEC)
JPR-932 Security, Expert (JNCIE-SEC)

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

Cert Prep: Migrating from the Cisco CCNA to the JNCIA-Junos 5 hours

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 December 2018. 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, AUTOMATION & DEVOPS, DESIGN

Cloud
- JNCIP–SP–Cloud
  Network Automation in the Service Provider Cloud (NASPC)
- JNCIP–ENT–Cloud
  Network Automation in the Enterprise Cloud (NAEC)
- AppFormix Cloud Services (AFCS)
- JNCIS–Cloud
  Network Automation Using (Open) Contrail Cloud (NACC)
- JNClA–Cloud
  Juniper Cloud Fundamentals (JCF)

Automation and DevOps
- JNCIS–DevOps
  Junos Platform Automation and DevOps (JAUT)
- JNClA–DevOps
  Introduction to Junos Platform Automation and DevOps (IJAUT)
- JNCIP–DevOps
  Advanced Junos Platform Automation and DevOps (AJAUT)
- JNClP–DevOps
  Juniper Networks Design—Data Center (JND-DC)
- JNCD–DevOps
  Juniper Networks Design—Cloud (JND-SP)
- JNClE–DevOps
  Juniper Networks Design—Security (JND-SEC)
- JNCD–Design
  Juniper Networks Design Fundamentals (JNDF)

Notes: Information current as of December 2018. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.

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**JUNIPER NETWORKS CURRICULUM—CLOUD**

- **Juniper Networks Certified Professional Enterprise Cloud (JNCIP-ENT-Cloud)**
  - Network Automation in the Enterprise Cloud (NAEC)*
  - Network Automation Using (Open) Contrail Cloud (NACC) 5 days
  - Network Automation in the WAN (NAWAN)**
  - Juniper Cloud Fundamentals (JCF)†

- **Juniper Networks Certified Professional Service Provider Cloud (JNCIP-SP-Cloud)**
  - Network Automation in the Service Provider Cloud (NASPC) 3 days

- **Juniper Networks Certified Specialist Cloud (JNCIS-Cloud)**
  - JN0-411 Cloud, Specialist (JNCIS-Cloud)

- **Juniper Networks Certified Associate Cloud (JNCIA-Cloud)**
  - JN0-210 Cloud, Associate (JNCIA-Cloud)

**Notes:**
- *NAEC is in planning however the current version of the course, Network Automation in the Data Center (NA-DC) is available. Attendance in the Advanced Data Center Switching (ADCX) course is recommended prior to the NAEC course.
- The AFCS course will be a component of the NAEC course.† Attendance of the Introduction to the Junos Operating System (IJOS) course is strongly recommended prior to the JCF course.
- **Attendance in the Junos MPLS Fundamentals (JMF) course is strongly recommend prior to the NAWAN course. Information current as of December 2018. 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 Certification — Automation and DevOps

Introduction to Junos Platform Automation and DevOps (IJAUT) - 3 days or On-Demand

Advanced Junos Platform Automation and DevOps (AJAUT) - 3 days

Junos Platform Automation and DevOps (JAUT) - 5 days

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

Juniper Networks Certified Specialist Automation and DevOps (JNCIS-DevOps)
JN0-420 Automation and DevOps, Specialist (JNCIS-DevOps)

Juniper Networks Certified Associate Automation and DevOps (JNCIA-DevOps)
JN0-220 Automation and DevOps, Associate (JNCIA-DevOps)

Additional Automation Training

- Network Automation Using (Open) Contrail Cloud (NACC) - 5 days
- Network Automation in the Enterprise Cloud (NAEC) - 3 days
- Network Automation in the WAN (NA-WAN) - 3 days
- Junos SDK Overview - 2 hours
- Junos as a Scripting Language - 4 hours
- Junos Space Essentials (JSE) - 2 days
- Junos Space Security Director (JS-SD) - 2 days
- Junos Space Network Director (JS-ND) - 1 day
- Juniper Learning Bytes - Varies

Notes: *In planning. Information current as of December 2018. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.

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**Data Center Design Track**

- Juniper Networks Certified Design Specialist, Data Center (JNCDS-DC)
  - JN0-1301 Design, Specialist, Data Center (JNCDS-DC)
  - 5 days

**Service Provider Design Track**

- Juniper Networks Certified Design Specialist, SP (JNCDS-SP)**
  - JN0-1361 Design, Specialist, Service Provider (JNCDS-SP)**
  - 5 days

**Security Design Track**

- Juniper Networks Certified Design Specialist, Security (JNCDS-SEC)
  - JN0-1331 Design, Specialist, Security (JNCDS-SEC)
  - 5 days

**Juniper Networks Certified Design Associate (JNCDA)**

- JN0-1100 Design, Associate (JNCDA)
  - 3 days or On-Demand

**Juniper Networks Design Fundamentals (JNDF)**

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**Notes:** * Previously known as Juniper Networks Design—WAN (JND-WAN). **Previously known as the JNCDS-WAN. Information current as of December 2018. 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

### Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
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<tbody>
<tr>
<td>Junos Troubleshooting in the NOC (JTNOC)</td>
<td>4 days</td>
</tr>
<tr>
<td>Introduction to the Junos Operating System (IJOS)</td>
<td>3 days or On-Demand</td>
</tr>
<tr>
<td>Networking Fundamentals</td>
<td>5 hours</td>
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**Notes:** Information current as of December 2018. 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.
Training available for...

- Junos Space
JUNIPER NETWORKS CURRICULUM—JUNOS SPACE

Notes: Information current as of December 2018. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.

Related Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>JA1500 Junos Space Appliance Installation and Initial Configuration</td>
<td>4 hours</td>
</tr>
<tr>
<td>Juniper Learning Bytes</td>
<td>Varies</td>
</tr>
</tbody>
</table>

Junos Space—Network Director (JS-ND) 1 day
Junos Space—Security Director (JS-SD) 2 days
Junos Space Essentials (JSE) 3 Days