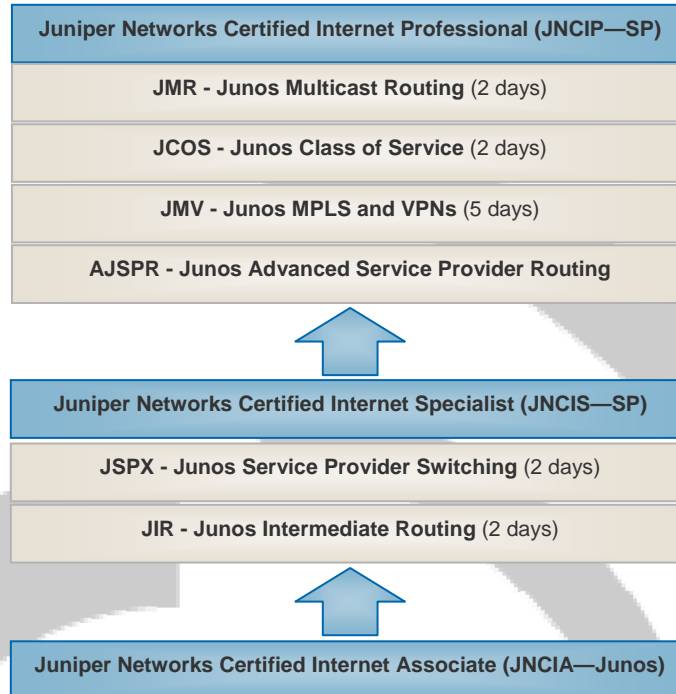




JUNIPER JUNOS SERVICE PROVIDER (SUPERSEDED)



**New certification track roadmap for 2011 does not relate to this course. Contact us now to discuss equivalent or replacement training.

Advanced Juniper Networks Routing - M/T-series (AJNR)

Course Overview

This lab-intensive, hands-on, five-day course provides an advanced look at popular routing and traffic engineering protocols supported on Juniper Networks M-series and T-series platforms. The AJNR course investigates the intricacies of interior gateway protocol (IGP) operation through OSPF and IS-IS labs that engage the student in a detailed examination of the link-state database and the effects of virtually all protocol options.

Prerequisites

Students attending this class should be able to establish, without assistance, a basic configuration for OSPF, IS-IS, BGP, MPLS, and PIM. Students should also have knowledge of the JUNOS Internet software configuration syntax to the extent covered in the Configuring Juniper Networks Routers course.

Open Shortest Path First (OSPF)

- LSA Contents and Flooding
- Shortest Path First Operation
- Graceful Restart
- OSPF Areas (Stub, Stub with no Summaries, NSSA, NSSA with no Summaries)
- Virtual Links
- Authentication
- Reference Bandwidth
- Prefix Limits
- Route Summarization
- Labs
- Content.

Intermediate System-to-Intermediate System (IS-IS)

- LSP / TLV Contents and Flooding
- Shortest Path First Operation
- Graceful Restart
- Multilevel IS-IS
- Route Leaking and Summarization
- Wide Metrics



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- Overload
- Authentication
- Reference Bandwidth
- Prefix Limits
- Mesh Groups
- Labs

Border Gateway Protocol (BGP)

- BGP Attributes
- Route Selection
- Graceful Restart
- Modifying Attribute Values
- Scaling with Route Reflection
- Scaling with Confederations
- Load Balancing
- Authentication
- Prefix Limits
- Multipath
- Multihop
- Labs

Multiprotocol Label Switching (MPLS)

- MPLS and RSVP Review
- RSVP Sessions
- RSVP Messages and State Structures
- Traffic Engineering Extensions
- RSVP Authentication
- RSVP Graceful Restart
- CSPF Overview
- Analyzing the Traffic Engineering Database (TED)
- CSPF Algorithm
- Applying User Constraints
- Primary and Secondary LSPs
- Fast Reroute and Link Protection
- Adaptive Style Reservations
- Forwarding Adjacencies
- Ultimate Hop Popping (Explicit Null)
- Auto Bandwidth
- Controlling the Time-to-Live
- LDP Neighbor Discovery
- LDP Session Establishment
- The LDP Database
- LDP Tunnelling
- LDP Authentication
- LDP Graceful Restart
- Labs
- Multicast
- Protocols and Forwarding Trees
- PIM-SM Packet Formats
- RP Options (Static, BSR, Auto-RP)
- Multicast Scoping

- MSDP Packet Formats
- MSDP Mesh Groups
- Anycast RP Using MSDP
- Inter-AS MSDP
- MBGP Overview
- MBGP Attributes
- Inter-domain Multicast Using MBGP
- Routing Table Groups
- Altering the RPF Table
- Labs

Cost AUD \$4,099 inc. GST

For Available Dates & Terms and Conditions see:
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