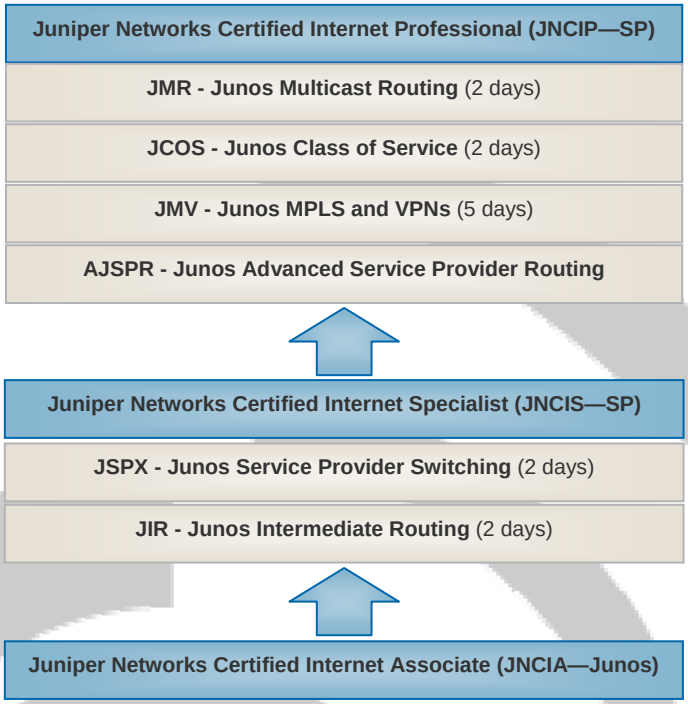
JUNIPER JUNOS SERVICE PROVIDER (SUPERSEDED)



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

Advanced Policy (APOL)

Course Overview
This four-day course provides a detailed examination of the JUNOS software policy framework. The course begins with a quick review of policy basics and then quickly moves to advanced topics. It provides detailed discussions of load balancing, policy evaluation, and route creation. How routing policies affect the interior gateway protocols as well as multicast routing are examined. The complexities of implementing and using policies in relation to BGP are then explored. The discussion centers on the default behavior of the basic BGP attributes and their response to policy controls. Most course modules provide examples and use policies that are relevant in real-world networks. Students then implement those examples in the accompanying labs.

Objectives
This is an intensive, hands-on, four-day course, with students participating in a variety of configuration and troubleshooting scenarios. Each student team controls its own router and participates in building large, multifunctional networks. Students that complete this course should be proficient in controlling the dissemination of routing information and route modification in JUNOS software.

Prerequisites
Students should be able to configure basic RIP, OSPF, IS-IS, and BGP networks without assistance. Students should have knowledge of the JUNOS Internet software policy syntax to the extent covered in the Configuring Juniper Networks Routers course.

Day One

Module 1: Policy Creation

- Policy Creation
- Policy Construction
- Modifying Existing Policies
- Viewing and Testing Policies
- Lab 1: Network Connectivity Check
- Lab 2: Advanced Policy Creation

Day Two

- Module 5: Class of Service
- Forwarding Class Override
- Forwarding Using CoS
- Lab 7: Class-Based Forwarding
- Module 6: Interior Gateway Protocols
- Routing Information Protocol
- Open Shortest Path First Protocol
- Intermediate System-to-Intermediate System Protocol

- Lab 8: Interior Gateway Protocols
- Module 7: Multicast Policies
- PIM Spares Mode
- Controlling PIM Joins
- Controlling Source Active Messages
- Multicast Scoping
- Lab 9: Multicast Policies

Day Three

- Module 8: Border Gateway Protocol
- BGP Operation
- BGP Next-Hop Attribute
- Lab 10: Border Gateway Protocol
- Module 9: BGP Attributes: Origin and Multiple Exit Discriminator
- BGP Origin Attribute
- BGP MED Attribute
- Lab 11: BGP Attributes, Origin and MED
- Module 10: BGP Attributes: AS Path
- Modifying AS Path Information
- AS-Path Regular Expressions
- Null AS-Path Information
- Lab 12: BGP Attributes: AS Path

Day Four

- Module 11: BGP Attributes: Local Preference
- Local Preference
- Local Preference Examples
- Lab 13: BGP Attributes: Local Preference
- Module 12: BGP Attributes: Communities
- Community
- Well-Known Community Values
- Community Configurations
- Regular Expressions
- Extended Communities
- Lab 14: BGP Attributes: Communities
- Module 13: BGP Route Damping
- Route Flap and Damping Overview
- Route Damping Parameters
- Damping Configuration and Analysis
- Lab 15: BGP Damping

Cost AUD $3,299 inc. GST

For Available Dates & Terms and Conditions see:
www.crystalecho.com

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