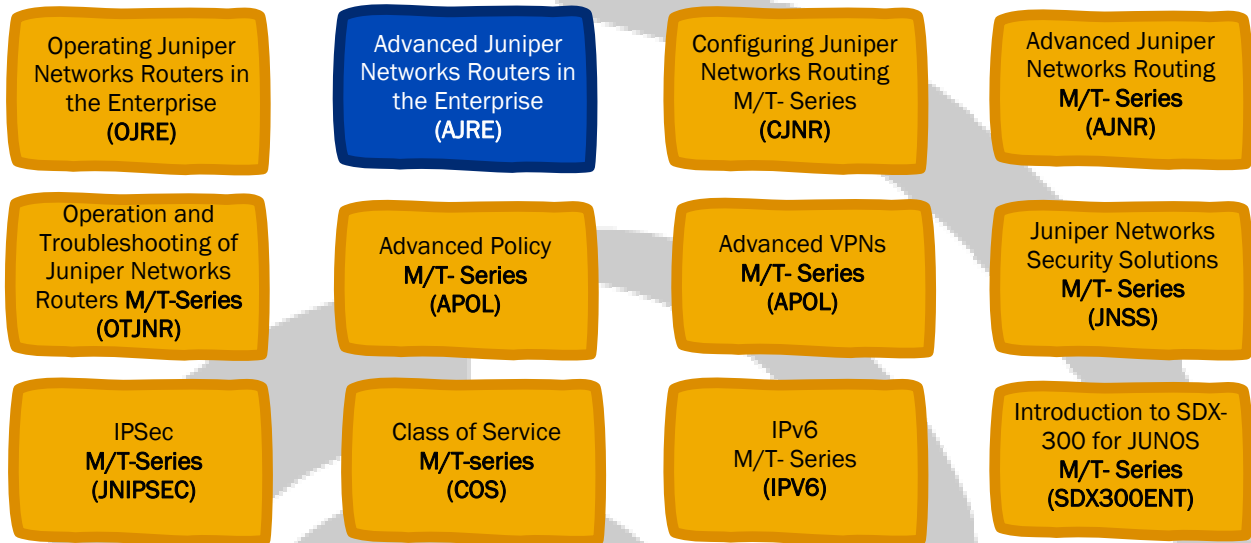




JUNIPER ENTERPRISE ROUTER - TRAINING CURRICULUM

Juniper Networks Educational Services helps ensure that you have the knowledge and skills to deploy and maintain cost-effective, high-performance networks, as well as demonstrate your technical expertise and keep you ahead of the technology curve. Our technical education courses are designed to give you the technical detail and capabilities you require to ensure that your network operates securely and at peak performance.



JNCIA-ER = OJRE

JNCIS-ER = AJRE

JNCIA-M = CJNR

JNCIS-M = CJNR + AJNR + APOL + Additional Reference / Self Study

Advanced Juniper Networks Routers in the Enterprise (AJRE)

Course Overview

This 4-day, lab-intensive, hands-on course provides an advanced look at routing and services configurations on Juniper Networks J-series and M-series platforms commonly used in the enterprise environment. AJRE course highlights include:

- routing policy and firewall filters
- the complexities of BGP configuration most relevant to enterprises
- migration from a distance-vector routing protocol to a link-state routing protocol, including strategies for successful migrations with limited to no downtime
- Configuration and monitoring of Layer 2 services, including the Compressed Real-Time Transport Protocol (CRTP), Multilink PPP (MLPPP), and Multilink Frame Relay (MLFR)

- configuration of stateful firewall filters, NAT, and IPSec VPNs, including interoperability with other vendors
- options for branch-office connectivity, including provider-provisioned Layer 2 and Layer 3 VPNs, private circuits, and IPSec VPNS
- Class of Service (CoS) deployment in the enterprise environment and the interaction of CoS with other configurations on the router

Target audience

Experienced network engineers, support personnel, reseller support, and others responsible for implementing Juniper enterprise routing products.

Prerequisites

This is an advanced course. It assumes that students meet the following prerequisites:



- Completion of the Operating Juniper Networks Routers in the Enterprise (OJRE) course or equivalent knowledge and experience;
- Knowledge, familiarity, and comfort with the JUNOS CLI;
- Experience managing routers (not necessarily Juniper Networks) in an enterprise environment;
- Understanding of destination-based, hop-by-hop IP routing in a Classless Inter-Domain Routing (CIDR) environment; and
- Experience with IGPs in an enterprise environment

Course Contents

Day One: Course Introduction

JUNOS Policy

- Policy Language and Policy Evaluation Process Overview
- Routing Policy
- Firewall Policy
- Unicast Reverse-Path Forwarding Checks

BGP

- BGP Overview
- IBGP Implementation
- EBGP Implementation
- BGP-IGP Interaction

Enterprise Routing Policies

- Enterprise BGP Deployment
- Case Study: Primary/Secondary Routing Policy

Day Two

Transitioning Between IGPs

- Transition Overview
- Overlay Transition
- Route Redistribution Transition
- Integrated Transition

JUNOS Services Overview

- JUNOS Services Overview
- Layer 2 Services Configuration
- Layer 3 Services Overview

Day Three

Stateful Firewall and Network Address Translation

- Stateful Firewall and NAT Overview
- Applications
- Configuring Stateful Firewall Rules
- Configuring NAT Rules
- Implementing Stateful Firewall and NAT

Day Four

Class of Service

- CoS Overview
- Traffic Classification
- Traffic Queuing
- Traffic Scheduling
- Example
- Troubleshooting

Branch Office Connectivity

- Overview of Connectivity Options
- Routing and Security Implications
- CoS Considerations

Cost AUD \$2,499 inc. GST



Certification: *(JNCIS-ER)*

Juniper Networks Certified Internet Specialist

Exam code: JN0-350

Exam: Prometric testing www.2test.com

Exam length: 90 minutes

Exam type: 60 multiple-choice questions

Passing grade: 70%

Recommended Training: AJRE

Available Dates: www.crystalecho.com

Terms and Conditions

- Students will be required to supply their own notebook PC with network card and serial port
- 50% refunded if cancelled in less than 10 working days before course
- 25% refunded if cancelled in less than 5 working days before course

