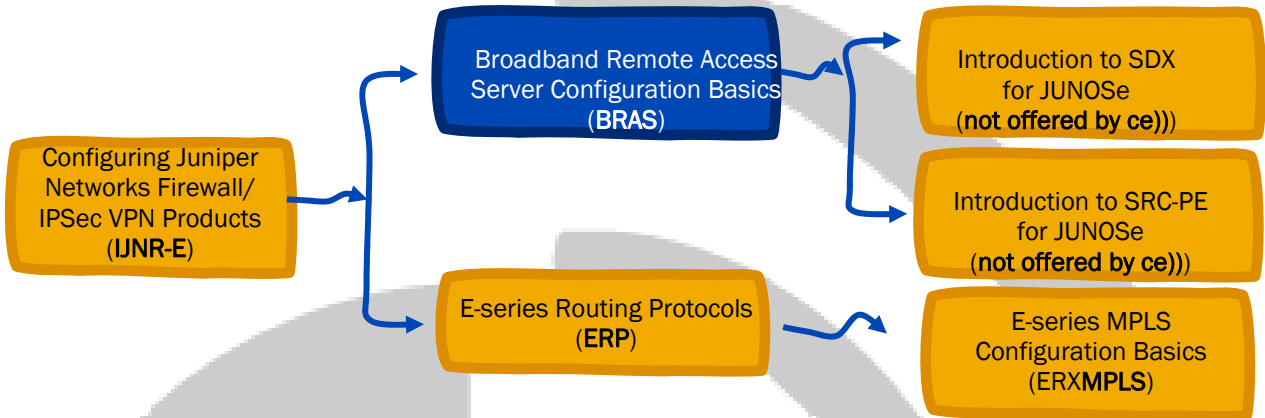




JUNIPER E-SERIES ROUTER - TRAINING CURRICULUM

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-E = IJNR + BRAS

JNCIS-E = ERP + MPLS

JNCIP-E = All of the above plus extensive configuration experience

Broadband Remote Access Server Configuration Basics (BRAS)

Course Overview

This 4-day, course is designed to provide technical network professionals with the skills needed to successfully install, configure, and troubleshoot the E-series platform to act as a broadband remote access server (B-RAS). The course covers the fundamentals of B- RAS, ATM, IP over ATM, bridged Ethernet, PPP over ATM, PPP over Ethernet, VLANs, dynamic interfaces, L2TP, policy management as well as E-series router systems administration. The course will consist of over 50% hands-on exercises

After attending this class, you will be able to:

- Configure IP-over-ATM interfaces;
- Configure bridged Ethernet interfaces;
- Configure PPP-over-ATM interfaces;
- Configure PPP-over-Ethernet interfaces;
- Configure dynamic interfaces;
- Configure LT2P;
- Troubleshoot connectivity issues;
- Configure fundamental policy management; and

- Describe E-series router system administration tasks

Prerequisites

The prerequisites for the E-series B-RAS Configuration Basics course are knowledge of IP in an ISP environment and the Introduction to Juniper Networks Routers – E-series course

Course Contents

Course Introduction

Day 1

- Chapter 1: Course Introduction
- Chapter 2: xDSL Overview and IP over ATM:
 - B-RAS and DSL Overview
 - IP-over-ATM Operation and Configuration
 - Troubleshooting IP over ATM
- Lab 1: Configuring IP over ATM
- In this lab, you will configure and troubleshoot an IP-over-ATM interface and static IP routes.



- Chapter 3: Bridged Ethernet and DHCP:
 - Overview of Bridged Ethernet
 - Bridged Ethernet and DHCP Configuration and Troubleshooting
- Lab 2: Configuring Bridged Ethernet
- In this lab, you will configure a bridged Ethernet interface and virtual routers.

Day 2

- Chapter 4: PPP over ATM:
 - Overview of PPP over ATM
 - Life of a Packet: PPP over ATM
 - Configuring PPP over ATM
 - Troubleshooting PPP-over-ATM Interfaces
- Lab 3: Configuring PPP over ATM
- In this lab, you will configure the E-series router as a B-RAS supporting PPP-over-ATM clients.
- Chapter 5: PPP over Ethernet:
 - Overview of PPP over Ethernet
 - PPP over Ethernet in Ethernet Access Networks
 - PPP-over-Ethernet Configuration and Troubleshooting
- Lab 4: Configuring PPP over Ethernet
 - In this lab you will configure the E-series router as a B-RAS supporting PPP-over-Ethernet clients

Day 3

- Chapter 6: Dynamic Interfaces:
 - Dynamic PPP-over-ATM and PPP-over-Ethernet Interfaces
 - Dynamic IP-over-ATM and Bridged Ethernet Interfaces
 - Dynamic Interface Creation using Bulk Configuration
 - Dynamic Subscriber Interfaces
- Lab 5: Configuring Dynamic Interfaces
- In this lab you will configure the E-series router as a B-RAS supporting various types of dynamic interfaces.
- Chapter 7: L2TP:
 - L2TP Overview
 - L2TP Operation
 - E-series Router L2TP Configuration
 - L2TP Tunnel Failover and Tunnel Selection
 - E-series Router Requirements
 - Troubleshooting L2TP
- Lab 6: Configuring L2TP
 - In this lab you configure and troubleshoot the E-series router as both an L2TP access concentrator and as an L2TP network server.

Day 4

- Chapter 8: Policy Management Overview
 - Policy Management Overview
 - Configuring Classifier Lists and Policy Lists
 - Rate-Limiting Overview
 - Configuring Rate-Limit Profiles
 - Configuring Policy Lists with Multiple Rules
 - Troubleshooting Policy Manager
- Lab 7: Configuring Policy
 - In this lab you configure classifier lists, rate-limit profiles, and policy lists. You will attach these policies to static and dynamic IP interfaces and verify their operation.
- Chapter 9: System Administration:
 - Upgrading and Downgrading Software
 - Backup Boot Configuration and Slot Configuration
 - Rebuilding Flash Cards and Password Recovery
 - Accessing the CLI
 - Other System Administration Task

Cost AUD \$3,199 inc. GST



Certification: (JNCIS-E)

Juniper Networks Certified Internet Specialist

Exam code: JNO-

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

