



Course No: (TWI-JUN-CIRCUIT)

Length: 3 days

About this Course

This course is designed to provide technical network professionals with the skills they need to be able to successfully install, configure, and troubleshoot the E-series router in a dedicated access network running various routing protocols. The course covers the fundamentals of PPP, POS, ATM, VLANs, OSPF, IS-IS, BGP4 as well as E-series system administration. The course consists of over 50% hands-on exercises.

Objectives

After successfully completing this course, you should be able to:

- Configure PPP, POS, Ethernet, ATM, and VLAN interfaces on the E-series router;
- Configure the E-series router for OSPF;
- Configure the E-series router for IS-IS;
- Configure the E-series router for BGP; and
- Describe fundamental E-series system administration tasks

Intended Audience

This course is intended for technical network professionals responsible for the integration, configuration, and management of E-series router networks.

Course Level

This is an intermediate-level course designed to provide a strong foundation for configuring and troubleshooting various routing protocols on an E-series router.

Prerequisites

The prerequisites for the E-series Routing Protocols course are knowledge of IP in an ISP environment and the Introduction to Juniper Networks Routers-E-series course.

Course Contents

Day1

Chapter 1: Course Introduction

Chapter 2: Interface Configuration

- The E-series Router in a Dedicated Access Environment
- Configuring and Verifying IP-over-Ethernet Interfaces
- Verifying IP-over-HDLC POS Interface
- Lab 1: Interface Configuration

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Day 2

Chapter 3: OSPF Overview

- OSPF Operation and Single-Area Configuration
- Lab 2: Configuring OSPF

Chapter 4: IS-IS Overview

- IS-IS Overview
- IS-IS Protocol Operation
- IS-IS Configuration and Verification
- Lab 3: Configuring IS-IS

Day 3

Chapter 5: BGP Overview

- BGP Overview
- Basic BGP Configuration
- Influencing Traffic Flow
- Modifying BGP Path Attributes
- Lab 4: Configuring BGP

Chapter 6: System Administration

- Upgrading and Downgrading Software
- Backup Boot Configuration and Slot Configuration
- Rebuilding Flash Cards and Password Removal
- Solutions 1 and 2
- Accessing the CLI
- Other System Administration Tasks

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