

# AJER - Advanced Junos Enterprise

## Routing

**Duration:** 40.00 hours (5 days)

**32.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

### Course Information

**Delivery Format:** Instructor Led - Online

### Course Overview

This five-day course is designed to provide students with the tools required for implementing, monitoring, and troubleshooting Layer 3 components in an enterprise network.

### About This Course

This five-day course is designed to provide students with the tools required for implementing, monitoring, and troubleshooting Layer 3 components in an enterprise network.

### Who Should Attend

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

# Learning Outcomes

---

**Upon successful completion of this course, participants will be able to:**

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

Describe the various OSPF link-state advertisement (LSA) types.

Explain the flooding of LSAs in an OSPF network.

Describe the shortest-path-first (SPF) algorithm.

Describe OSPF link metrics.

Describe the various OSPF authentication methods.

Explain the differences between OSPFv2 and OSPFv3.

Describe OSPF area types and operations.

Configure various OSPF area types.

Summarize and restrict routes.

Configure OSPF multi-area adjacencies.

Configure OSPF virtual links.

Explain OSPF external reachability.

List useful commands that are used to troubleshoot and verify OSPF.

Isolate different OSPF issues.

Describe BGP operations.

Configure various BGP options.

Explain the route selection process for BGP.

Describe how to alter the route selection process.

Explain the use of routing policies in BGP.

Explain how BGP routes are processed.

Describe the various BGP attributes and their use.

Manipulate common BGP attributes.

Review common BGP troubleshooting procedures.

List common BGP troubleshooting commands.

Identify issues with BGP peering.

Explain reasons to use BGP in the Enterprise.

Explain how ISP policies can influence external connectivity.

Describe three common routing policies for external connectivity in the enterprise.

Identify common commands for troubleshooting routing policy.

Describe basic multicast terminology.

Describe the multicast address space.

Describe how RPF is used in a multicast network.

Describe the basic functionality of IGMP.

Describe the multicast service models and modes.

Describe PIM-SM operation and configuration when using the ASM model.

Describe PIM-SM operation and configuration when using the SSM model.

Verify and troubleshoot multicast.

Identify environments that may require a modified CoS implementation.

Describe the various CoS components and their respective functions.

Explain the CoS processing along with CoS defaults on SRX Series devices.

Describe situations in which some CoS features are used in the enterprise.

Describe the use of the Real-Time Performance Monitoring tool.

Verify and troubleshoot CoS.

Describe a traditional Campus network design.

Understand the need for a new architectural design.

Describe the five key concepts of the Evolved Core.

Describe the benefits of a Layer 3-based Campus Networks.

Describe Layer 2 tunneling.

Explain VXLAN functionality.

Describe VXLAN gateways.

Describe EVPN features.

Describe EVPN operations.

## Additional Course Details

---

Nexus Humans AJER - Advanced Junos Enterprise Routing training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the AJER - Advanced Junos Enterprise Routing course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

---

## **Q: What delivery options are available for AJER - Advanced Junos Enterprise Routing?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
- 

## **Q: How many CPD hours does this course provide?**

The 5-day AJER - Advanced Junos Enterprise Routing course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

---

## **Q: What is the duration of the AJER - Advanced Junos Enterprise Routing training?**

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

---

## **Q: Do you provide corporate training for AJER - Advanced Junos Enterprise Routing?**

Yes, we provide corporate training, dedicated training, and closed classes for AJER - Advanced Junos Enterprise Routing. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

---

## Q: Why choose Nexus Human for AJER - Advanced Junos Enterprise Routing?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

---

## Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your AJER - Advanced Junos Enterprise Routing training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

# Nexus Human

## Professional Training & Development

 Email: [info@nexushuman.com](mailto:info@nexushuman.com)

 Website: [www.nexushuman.com](http://www.nexushuman.com)

 Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)