



## Advanced Junos Enterprise Routing

**Duration: 5 Days**    **Course Code: AJER**    **Version: 19.a**    **Delivery Method: Virtual Learning**

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### 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. Detailed coverage of OSPF, BGP, multicast, class of service (CoS), and EVPN-VXLAN is covered in depth. The course also exposes students to common troubleshooting commands and tools used to troubleshoot various intermediate to advanced issues.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos operating system and in monitoring device and protocol operations.

This course uses Juniper Networks vSRX virtual firewall for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS. This course is based on Junos OS Release 19.3R1.8.

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### Target Audience:

Participants in the course should have:

A desire to learn how to manage and configure advanced routing protocol features.

A desire to learn about EVPN/VXLAN.

A desire to learn how to migrate to an L3 IP Fabric

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### Prerequisites:

This course has the following prerequisites:

- Have TCP/IP and Junos networking experience.
  - Have working experience with basic routing protocols.
  - Attend the Introduction to the Junos Operating System (IJOS)
  - Attend the Junos Intermediate Routing (JIR) courses
  - JIR - Junos Intermediate Routing
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### Follow-on-Courses:

- AJEX - Advanced Junos Enterprise Switching
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## Content:

### Day 1 Topics

- OSPFv2 Review
- OSPF Areas

### Advanced OSPF Options

### Day 2 Topics

- Troubleshooting OSPF
- BGP operations, configuration and path selection
- BGP Attributes and Policy
- BGP Troubleshooting

### Day 3 Topics

- Enterprise Routing Policies
- Troubleshooting Policies
- Introduction to Multicast

### Day 4 Topics

- Multicast Routing Protocols and SSM
- Troubleshooting Multicast
- Class of Service
- Troubleshooting Class of Service
- Enterprise Architectures
- VXLAN
- EVPN-VXLAN
- Configuring an Evolved Core
- Migrating to an IP Fabric

### Day 5 Topics

- Multicast Routing Protocols and SSM
- Troubleshooting Multicast
- Class of Service
- Troubleshooting Class of Service
- Enterprise Architectures
- VXLAN
- EVPN-VXLAN
- Configuring an Evolved Core
- Migrating to an IP Fabric

## Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

[training@globalknowledge.com.eg](mailto:training@globalknowledge.com.eg)

[www.globalknowledge.com/en-eg/](http://www.globalknowledge.com/en-eg/)

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo