Course Outline:

1. Course Introduction
2. Introduction to Junos Security
    - Traditional Routing and Security
    - Architecture Overview of Junos Security Devices
    - Logical Packet Flow through Junos Security Devices
    - J-Web Overview
3. Zones and Screen Options
    - Zones Overview
    - Zone Configuration
    - Monitoring Security Zones
    - Configuring Screen Options
    - Screen Options Case Study
4. Security Policies
    - Security Policy Overview
    - Policy Components
    - Security Policy Configuration in J-Web
    - Policy Case Study (CLI)
    - Policy Case Study (J-Web)
5. Advanced Security Policy
    - Session Management
    - Junos ALGs
    - Policy Scheduling
    - Logging
    - Advanced Security Policy
6. Troubleshooting Zones and Policies
    - General Troubleshooting for Junos Devices
    - Troubleshooting Tools
    - Troubleshooting Zones and Policies
    - Zone and Policy Case Studies
7. Network Address Translation
    - NAT Overview
    - Source NAT
    - Destination NAT
    - Static NAT
    - Proxy ARP
8. Advanced NAT

- Persistent NAT
- DNS Doctoring
- IPv6 with NAT
- Advanced NAT Scenarios
- Troubleshooting NAT

9. IPsec VPN Concepts
   - VPN Types
   - Secure VPN Requirements
   - IPsec Tunnel Establishment
   - IPsec Traffic Processing
10. IPsec VPN Implementation
   - IPsec VPN Configuration
   - IPsec VPN Case Study
   - Proxy IDs and Traffic Selectors
   - Monitoring IPsec VPNs
11. Hub-and-Spoke VPNs
   - Hub-and-Spoke VPN Overview
   - Hub-and-Spoke Configuration and Monitoring
12. Group VPNs
   - Group VPN Overview
   - Group VPN Configuration and Monitoring
13. PKI and ADVPNs
   - Public Key Infrastructure Overview
   - PKI Configuration
   - ADVPN Overview
   - ADVPN Configuration and Monitoring
14. Advanced IPsec
   - NAT with IPsec
   - Class of Service with IPsec
   - Best Practices
   - Routing OSPF over IPsec
   - IPsec with Overlapping Addresses
   - IPsec with Dynamic Gateway IP Addresses
15. Troubleshooting IPsec
   - IPsec Troubleshooting Overview
   - Troubleshooting IKE Phase 1 and 2
   - IPsec Logging

- IPsec Case Studies

16. Chassis Cluster Concepts
    - Chassis Clustering Overview
    - Chassis Cluster Components
    - Chassis Cluster Operation
17. Chassis Clutter Implementation
    - Chassis Cluster Configuration
    - Advanced Chassis Cluster Options
18. Troubleshooting Chassis Clusters
    - Troubleshooting Chassis Clusters
    - Chassis Cluster Case Studies

A. SRX Series Hardware
- Branch SRX Platform Overview
- Mid-Range SRX Platform Overview
- High-End SRX Platform Overview
- SRX Traffic Flow and Distribution
- SRX Interfaces

B. Virtual SRX
- Virtualization Overview
- Network Virtualization and SDN
- Overview of the Virtual SRX
- Deployment Scenarios
- Integration with AWS

Labs Included:

- Zones and Screen Options
- Security Policies
- Advanced Policy Options
- Troubleshooting Security Zones and Policies
- Network Address Translation
- Advanced NAT
- Implementing IPsec VPNs
- Hub-and-Spoke VPNs
- Group VPNs

- PKI and ADVPNs
- Advanced IPsec VPN Solutions
- Troubleshooting IPsec
- Implementing Chassis Clusters
- Troubleshooting Chassis Clusters