

Cisco IOS XR Broadband Network Gateway Implementation and Verification (IOSXR304) v1.0

Course Outline:

- Broadband Network Gateway Overview
 - BNG Architecture
 - BNG Software and Hardware Requirements
- Configuring and Verifying Authentication, Authorization, and Accounting
 - AAA Overview and Operation
 - RADIUS Operation and Configuration
 - DIAMETER Operation and Configuration
- Activating Control Policy
 - Control Policy Overview
 - Creating and Activating Class Maps and Policy Maps
 - Defining Dynamic Templates
- Establishing Subscriber Sessions
 - Subscriber Session Overview
 - Establishing IPoE and PPPoE Sessions
 - DHCP Operation
 - Subscriber Interface Neighbor Discovery
 - Static Session and Session Limits
 - BGP Subscriber Support
- Deploying Quality of Service
 - Quality of Service Overview and QoS Feature Support
 - RADIUS Based Policing
 - Share Policy Instances and Merged Policy-Maps
- Configuring Subscriber Features
 - Managing Control Plane Traffic
 - Controlling Packet Forwarding
 - Providing Multicast Services

- Routing and Traffic Mirroring on Subscriber Sessions
- BNG Geo Redundancy and XML Support
 - Geo Redundancy Overview and Deployment Models
 - Configuring and Verifying Geo Redundancy
 - XML Support

Lab outline

- Configuring and Verifying Authentication, Authorization, and Accounting
- Activating Control Policy
- Establishing Subscriber Sessions
- Configuring QoS
- Configuring Subscriber Features
- Configuring BNG Geo Redundancy