





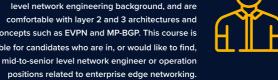
Level 4

SKILLS ACQUIRED

Focus on the Enterprise edge, Service Provider WAN and Large Enterprise Transport networks.

WHO IS IT FOR?

ACE:L4 is best suited for individuals with at least a midlevel network engineering background, and are comfortable with layer 2 and 3 architectures and concepts such as EVPN and MP-BGP. This course is suitable for candidates who are in, or would like to find,



Expert



LAB TIME

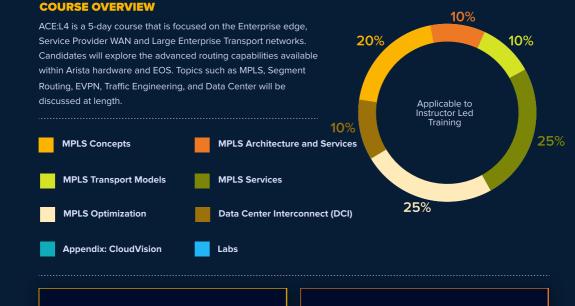
This course includes hands-on virtual labs built on current versions of EOS and CloudVision.



3 weeks access to Labs







MPLS Concepts

- MPLS Today
- Essential Terminology
- Migration Considerations · Label Actions and Distribution Protocol
- Signaling Segment Routing
- MPLS Services MPLS Deployment Scenarios

MPLS Transport Models

- MPLS Transport with Label Distribution Protocol
- MPLS Transport with Segment Routing (SR) • MPLS Transport SR Options: IS-IS-SR, BGP-SR
- MPLS Transport with IS-IS-SR • Segment Routing: IS-IS SR Configuration
- MPLS Transport with BGP-SR • Traffic Engineering, RSVP Traffic Engineering (RSVP-TE), and Segment Routing Traffic
- Engineering (SR-TE) • RSVP-TE
- SR-TE
- Segment Routing: IS-IS TE Configuration • Segment Routing: TE Policy and Steering Traffic
- Using BGP to Bind MPLS Labels to Address
- Prefixes • MPLS Feature Support Matrix

MPLS Optimization

- Nexthop Group • User-defined Tunnel RIBs
- BGP Next-Hop Resolution RIBs
- Static Flow Aware Transport (FAT) Support on **EVPN VPWS**
- Traffic Steering and Service Mapping

Appendix: CloudVision

- Automation Landscape
- CloudVision Deployment Options
- · Zero Touch Provisioning Deployment
- Configlets
- Snapshots
- Rollback Overview
- CloudVision Telemetry • Using Studios
- Intro to CloudVision
- CVP Communication
- Bug Alerts EOL Lifecycle
- Tasks and Change Control
- Image Management Devices, Labels and Tags

MPLS Architecture and Services

- MPLS Transport
 - 3 VPN Services • Layer 2 EVPN Services
 - Point to Point Layer 2 Services • Multipoint Layer 2 VPN Services

MPLS Services

- MP-BGP
 - Virtual Routing & Forwarding (VRF) • MP-BGP Label Advertisement
 - L3VPN Control Plane Processing
 - L3VPN Data Plane Processing
 - E-Line with LDP Pseudowire
 - E-Line with EVPN VWPS (Virtual Private Wire
 - E-Line with EVPN Type-2
 - L3 EVPN (Route-type 5)

Data Center Interconnect (DCI)

- DCI Architecture
- Layer 2 & 3 Connectivity over MPLS-SR WAN • Case Study
- Labs

· Lab Access

- Configuring Provider Network Reachability

• Assigning Interface IP addresses using Static

- Enable MPLS and LDP
- IS-IS Segment-Routing Traffic Engineering • Configuring SR-TE Policy
- Steering Traffic into a TE Policy Configuring MP-BGP and L3VPN
- Configuring E-Line with LDP Pesudowire · E-Line with EVPN VPWS
- E-LAN with EVPN Type-2 (L2 EVPN) • Configuring L3EVPN - Route - type 5
- Troubleshooting L3EVPN Data Plane
- System-Tunnel-RIB
- Tunnel RIB Path Selection • Color Steering with SR-TE Policy • Data Center Interconnect (DCI)

MODALITIES Our aim is to provide high quality training that is

flexible and accessible for modern needs.



ADDITIONAL INFORMATION

Instructor-led Training

self-study options are available. Look for these badges prior to purchasing your training.

Verification from an official Arista training partner is required to register and take an exam. Instructor-led and







