

WAN ROUTING – MPLS CORE

EXAM DATA SHEET

FORMAT / STRUCTURE



Specialist
4 Hours

Hands-on Proctored lab-based exam utilizing the same environment as in the Arista Academy labs.

Conducted virtually from your environment, no requirement to travel to an exam center

Open-book, timed sessions

Each exam session is based on one of several possible scenarios. Topics covered and/or testing methods may vary.

SUMMARY OF EXAM

The Arista **WAN ROUTING – MPLS CORE** exam is focused on Large Enterprise Transport networks, and Data Center Interconnect (DCI) architectures. Attendees will explore the advanced routing capabilities available within Arista hardware and EOS. Topics such as EVPN, MPLS and Segment Routing will be discussed in depth.

HOW TO BE SUCCESSFUL / PREPARATION TIPS

- Execute repeatable workflows for configuration, troubleshooting, and validation
- Be proficient with verification commands
- Bookmark the Arista EOS configuration guides
- Practice the course labs
- Although this is an open-book exam, you will not have time to research fundamental concepts

PREREQUISITES

Although there are no prerequisites, knowledge of the related course materials is critical.

Associate Exam Objective



The Arista **WAN ROUTING – MPLS CORE** exam evaluates your ability to configure and verify key MPLS networking features in EOS-based environments. In this exam you will build a fully operational MPLS-enabled service provider core network using IS-IS, BGP and MPLS.

This exam will measure your competency and Architectural understanding with MPLS transport deployment accuracy, Overlay service implementation, Deterministic forwarding control, control-plane and data-plane verification all under time constraints. Areas of focus will include MPLS transport protocols, MPLS applications and MPLS services.

SKILLS & COMPETENCIES

To successfully complete the exam tasks, the candidate must possess the following technical skills:

Customer Routing

- Static routing, IGP's and BGP, VRF's

Core Routing

- **IS-IS:** Enabling IS-IS various levels as an underlay as needed
- **BGP:** Enabling BGP with various address families, including EVPN control plane
 - L3VPN (MP-BGP VPNv4)
 - L3EVPN (Route Type 5)
 - EVPN E-LAN (Multipoint Layer 2)

MPLS enablement

- Global MPLS enablement, With or without LDP
- Labels distributed via BGP
- Pseudowire configuration

Traffic-engineered, Constrained Forwarding and Segment Routing

- RSVP-TE signaling, TE tunnels
- Segment Routing MPLS, Segment Routing Color-Based Steering
- Node-SIDs assigned per router
- Default Arista SRGB
- Engineer non-default forwarding path
- Path manipulation

Monitoring and Troubleshooting

- **Connectivity checks:** verifying IP reachability, tunnel status and routing tables. End-to-end VPN validation
- **Diagnostic command:** Proficiency in show commands for the various routing protocols and MPLS
- Validate deterministic MPLS forwarding behavior

For more information, refer to exam policies and procedures
www.training.arista.com – under CERTIFICATION menu

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