# SDN

# Arista Cloud Engineer, Level 2

## ARISTA
ACE
Cloud Associate
**L2**

## SKILLS ACQUIRED

Preparing candidates to work with Arista networking equipment, design and manage network infrastructures, troubleshoot network issues, and enhance network security. These skills are valuable for network engineers, administrators, and other IT professionals working with Arista networking technologies.

## WHO IS IT FOR?

ACE:L2 is suitable for those with varied levels of experience: candidates wanting to gain a solid foundation in Arista networking as well as experienced professionals looking to enhance their expertise. This course covers a wide range of topics from basic configuration to advanced troubleshooting and security, making it valuable for a broad range of IT professionals working with Arista equipment and solutions.

Beginner ──────────── Expert

## LAB TIME

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

**3 weeks** access to Labs

**1 week** Instructor Led

**2 weeks** Work on labs independently to refine skills

## COURSE OVERVIEW

ACE:L2 is a 5-day course providing comprehensive coverage of Arista networking technologies, network troubleshooting and analysis, security measures, and cognitive campus networking concepts. It's designed to equip participants with the skills and knowledge necessary to effectively manage, maintain and troubleshoot Arista-based network infrastructures. Candidates are also introduced to network automation and troubleshooting with Arista's CloudVision solution.

Applicable to Instructor Led Training

15% · 13% · 13% · 15% · 8% · 6% · 15% · 15%
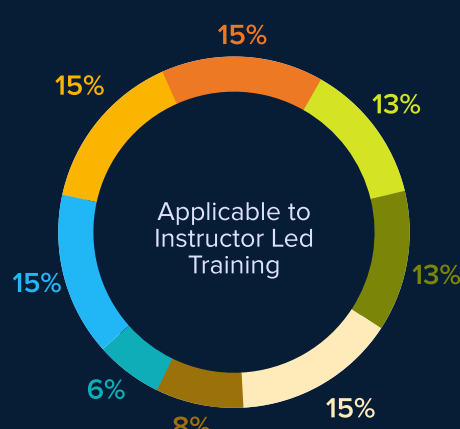
- EOS CLI - Troubleshooting & Maintenance Tools
- CloudVision
- Universal Cloud Networking - L2LS
- Universal Cloud Networking - L3LS
- Cognitive Campus
- Troubleshooting & Analysis
- Security
- Labs

## EOS CLI Troubleshooting & Maintenance Tools

- Arista Architecture Innovation
- EOS Design Principles
- Arista EOS Software Architecture Approach
- Arista Hardware Approach
- EOS Resources
- The Command Line Interface
- Using CLI to Configure Basic Tasks
- Interface Configuration
- Simple Network Management Protocol (SNMP)
- sFlow
- Show tech-support
- Watch and Diff Command
- Advanced Event Management (AEM) – CLI Scheduler
- Advanced Event Management (AEM) – Event Monitor
- Advanced Event Management (AEM) – Event Manager
- Recovery Procedures
- Upgrading EOS

## Universal Cloud Networking - L2LS

- Introduction to Leaf-Spine Architecture
- Layer 2 Redundancy
- Link Aggregation
- MLAG
- MLAG Troubleshooting
- Monitoring Tools
- First Hop Redundancy Protocol
- The Move to L2LS Architecture

## Troubleshooting & Analysis

- SPF and Physical Link Errors / Issues
- Hardware Troubleshooting
- System and Software Troubleshooting
- Memory and Flash Errors
- Arista EOS Health Check: CLI
- Arista EOS Health Check: CVP
- Debugging Layer2: CLI
- Debugging Layer2: CVP
- Troubleshooting Layer 3 Issues: CLI
- Troubleshooting Layer 3 Issues: CVP
- Adding Extensions as Troubleshooting Tools
- Monitoring Connectivity Tool
- LANZ Operation
- Port Mirroring
- Advanced Mirroring
- Packet Truncation and Timestamping
- Tap Aggregation (TapAgg)
- Tcpdump and Iperf Overview
- DANZ Monitoring Fabric

## Cognitive Campus

- Campus Architecture
- Arista Wi-Fi
- Wi-Fi Fundamentals
- Campus Wi-Fi Security (WIPS)
- Wi-Fi Configuration
- Cognitive Wi-Fi
- Troubleshooting- Connectivity
- Troubleshooting- Performance
- Proactive Troubleshooting

## CloudVision

- Introduction to CloudVision
- Automation Overview
- Deployment Options
- Introduction to Clusters
- Device Communication
- Configlets and Containers
- Tasks and Change Control
- Introduction to Change Control Templates
- Zero Touch Provisioning (ZTP)
- Image Management
- Snapshots/Rollbacks
- Labels/Tags
- Basic Telemetry

## Universal Cloud Networking - L3LS

- L2LS Review and Config Walkthrough
- Underlay and Overlay Design Options
- Comparison of L2LS to L3LS
- Layer 3 Redundancy
- OSPF
- Troubleshooting OSPF
- ISIS
- Troubleshooting ISIS
- BGP Introduction
- Troubleshooting BGP
- L3LS Design with BGP

## Security

- ACLs Overview
- Creating and Modifying ACL List
- Route-maps
- Prefix-lists
- Service / Protocol ACLs
- MACsec
- Arista Multi-domain Segmentation
- NDR- Network Detection and Response

## Labs

- CVP Navigation
- CVP Configlet Management
- CVP Configlet Builder
- CVP Snapshots
- Change Control
- CVP Dashboard Labs
- STP
- Troubleshooting STP
- MLAG Bowtie
- Troubleshooting MLAG
- Routing BGP
- Troubleshooting BGP
- Routing OSPF
- Routing Multiarea OSPF
- ACL
- Troubleshooting ACL

## MODALITIES

Our aim is to provide high quality training that is flexible and accessible for modern needs.

Instructor-led Training

Arista Academy
**PRO**

## ADDITIONAL INFORMATION

Verification from an official Arista training partner is required to register and take an exam. Instructor-led and self-study options are available. Look for these badges prior to purchasing your training.

ARISTA TRAINING PARTNER · ARISTA TRAINING PARTNER · ARISTA TRAINING PARTNER · ARISTA Training and Certification Official Curriculum