



Arista Cloud Engineer, Level 1

ARISTA

ACE
Cloud Novice

L1



SKILLS ACQUIRED

Equipping candidates with a strong foundation working with networking equipment, configuring network devices, and understanding the principles of network design and management, all within the context of Arista's technologies.

WHO IS IT FOR?

ACE:L1 is well suited for individuals entering the network engineering field and looking to acquire the essential knowledge and skills applied to modern network infrastructures. It's comprehensive coverage of general networking concepts and technologies lends itself to those new to the industry.



Beginner

Expert



LAB TIME

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



3 weeks access to Labs



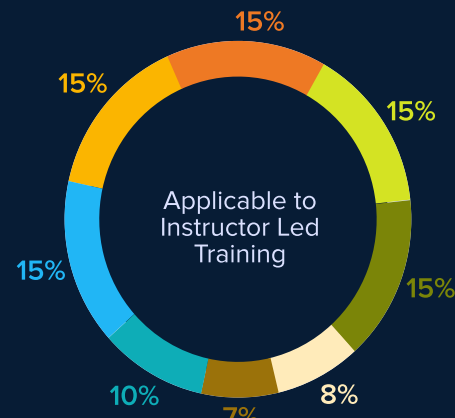
1 week
Instructor Led



2 weeks
Work on labs independently to refine skills

COURSE OVERVIEW

ACE:L1 is a 5-day course providing foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment. Candidates progress through networking fundamental topics ranging from Ethernet, TCP/IP, and Routing & Switching to network design, based on modern Leaf-Spine architecture used in today's Enterprise Data Center and Campus networks. Candidates are also introduced to network automation with Arista's CloudVision solution.



	Network Engineering Fundamentals		Working with Arista EOS
	Layer 2 Operations		Layer 3 Operations
	Data Center Leaf-Spine Architectures		Campus Architectures
	CloudVision		Labs

Network Engineering Fundamentals

- OSI Model
- TCP/IP Model
- Ethernet
- L2 v L3 Switching
- Introduction to IPv6
- IPv6 Address Architecture
- IPv6 Address Types
- TCP & UDP
- Cabling & Connectivity

Working with Arista EOS

- Arista Architecture Innovation
- EOS Design Principles
- Arista EOS Software Architecture
- Arista Hardware Approach
- EOS Resources
- Initial Boot-up Operations
- Working with EOS Images
- Zero Touch Provisioning (ZTP)
- Command Line Interface (CLI)
- AAA

Layer 2 Operations

- L2 Switching
- L2 Redundancy
- Spanning-Tree Protocol (STP)
- VLANs and Trunks
- Multiple Spanning Tree (MST)
- STP Enhancements
- Link Aggregation
- MLAG
- First Hop Redundancy Protocol

Layer 3 Operations

- Why Routing?
- Layer 3 Redundancy
- Routing Terminology
- Configuring OSPF
- VRF & VPN
- The Internet
- Wide Area Network (WAN)

Data Center Leaf-Spine Architectures

- Data Center & Cloud
- Introduction to Leaf-Spine Architecture
- Virtualized eXtensible LAN (VXLAN)
- VXLAN Data Plane Operations

Campus Architectures

- Campus Network Designs
- Arista WiFi
- WiFi Fundamentals

Labs

- Intro to EOS Command Line Interface (CLI)
- Setting up Management Connectivity to Arista Switches
- Understanding and Working with IP and ARP
- Configuring Layer 2
- Configuring LACP & MLAG
- Routing
- Navigating CloudVision Portal
- Configlet Management
- Installing & Working with EOS & CloudVision
- Change Control

CloudVision

- Introduction to Arista CVP
- CloudVision Deployment Options
- CVP/Device Communication
- Containers & Configlets
- Tasks & Change Control
- Zero Touch Provisioning (ZTP)
- Initial Deployment
- EOS Image Management
- Snapshots/Rollbacks
- Telemetry

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.

