



Arista Networking

ACE-L1: Arista Cloud Engineer Level 1 – Cloud Novice (ACE: L1)

\$3,995.00

- 5 Days

Upcoming Dates

Course Description

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.

Course Outline

Network Engineering Fundamentals

- Open System Interconnect Model
- Ethernet, IPv4, TCP & UDP
- Hosts, Endpoints, Clients
- Modern Connectivity

Working with Arista EOS

- Design Principles, Software Architecture, Hardware, Resources
- Boot-up Operations
- EOS Images
- Zero Touch Provisioning (ZTP)
- Command Line Interface (CLI)
- ARP & DHCP
- Intro to IPv6
- First Hop Redundancy Protocols

Layer 2 Operations

- L2 Switching
- L2 Redundancy
- VLANs and PVST
- Interface Configuration
- STP Configuration & Enhancements
- Multiple Spanning Tree (MST)
- Link Aggregation

- MLAG

Layer 3 Operations

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

Leaf-Spine DC Architectures

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

Campus Architectures

- WiFi Fundamentals
- WiFi Design
- Campus Architecture

CloudVision

- Automation Landscape
- CloudVision Deployment Options
- CloudVision Portal Communication
- Zero Touch Provisioning
- Deployment
- BugAlerts EOL Lifecycle
- Configlets
- Tasks and Change Control
- Snapshots
- Rollback
- Image Management
- Devices, Labels, and Tags
- CloudVision Telemetry

Audience

ACE: L1 is best suited for individuals entering the network engineering field and looking to acquire the essential knowledge and skills applied to modern network infrastructure.

Prerequisites

What You Will Learn

Foundational networking knowledge and skills from a modern perspective in Arista's EOS networking environment.