



# Arista Cloud Engineer

## Level 1 – Cloud Novice



ACE:L1 Data Sheet  
v2021.1



Course Duration: 5 days

### Topics At-a-Glance:

- Intro to Networking
- OSI – Ethernet
- TCP – UDP
- IPv4 – v6
- Intro to Layer 2
- VLANs & Spanning Tree
- VRRP – VARP
- Intro to Layer 3
- OSPF
- Intro to Leaf-Spine
- Intro to VXLAN
- Intro to Arista EOS
- Navigating the CLI
- Configuring Core Tasks
- Intro to Cloud Vision
- Intro to Campus Wired
- Intro to Campus WIFI



### Course Objectives

The ACE Level 1 course is designed to establish a firm foundation in open networking and Arista EOS. The engineer will progress through fundamental topics such as Ethernet, IP, Routing and Switching exposing them to the ease of configuration in the CLI. The course will build on these topics and introduce architectures built upon modern Leaf-Spine designs used in today’s Enterprise Data Center and Campus environments. Engineers will be introduced to automation and Arista’s CloudVision Solution.

### Target Audience

The ACE Level 1 course is best suited for individuals entering the Network Engineering Field and looking to establish the core skills that Arista Customers desire. Job Changers, Interns, University Students and Transitioning Veterans will gain the needed skills to begin their career in Network Engineering. Engineers looking to cross over from other fields such as Server, Wireless, Storage, M&E Broadcast Engineers, DevOps and Application Designers will gain the required knowledge of modern Ethernet networks. Those individuals holding current or expired Associate certifications in other vendor programs will find a refreshed and updated approach. ACE:L1 focuses on foundational knowledge from an updated and modern perspective. You will not waste energy learning outdated technologies, approaches or tasks no longer used in open networks. All topics are used daily within every Arista Customer network.

### Official Training & Exams

Only Arista Official Training will count towards exams. Proof of Purchase is required to register for exams. Instructor-led and Self-study options are available through Official Arista Training Partners. Look for these badges prior to purchasing your training.



### Course Outline

#### Module 1: Network Engineering Fundamentals

- OSI in Today’s Networks
- Ethernet
- TCP and UDP
- IPv4
- Layer 1 Cabling – Modern Connectivity

#### Module 2: Working with Arista EOS

- EOS Overview
- Initial Bootup
- EOS Images
- Zero Touch Provisioning (ZTP)
- Intro to CLI
- Configuring Basic Device Parameters
- Initial Switch Setup
- ARP
- IPv6
- VRRP – VARP

#### Module 3: Layer 2 Operations

- MAC Learning
- VLANs and Trunk – 802.1Q
- Spanning Tree – PVST and MSTP
- LACP and MLAG
- Configuring Layer 2 Parameters in CLI

#### Module 4: Layer 3 Operations

- Routing Fundamentals
- OSPF, ISIS and BGP overview
- Configuring OSPF in a Leaf-Spine Design
- WAN Connectivity
- Internet Peering with a Service Provider
- Understanding IP Address Schemas

#### Module 5: Data Center Leaf-Spine Architectures

- Intro to Unified Cloud Networking (UCN)
- Comparing a Layer 2 vs Layer 3 Leaf-Spine
- VXLAN Overview
- BUM Traffic

#### Module 6: Campus Architectures

- WIFI Fundamentals
- Arista CloudVision for WIFI Overview
- Power over Ethernet (PoE)
- Leveraging a Leaf-Spine Architecture

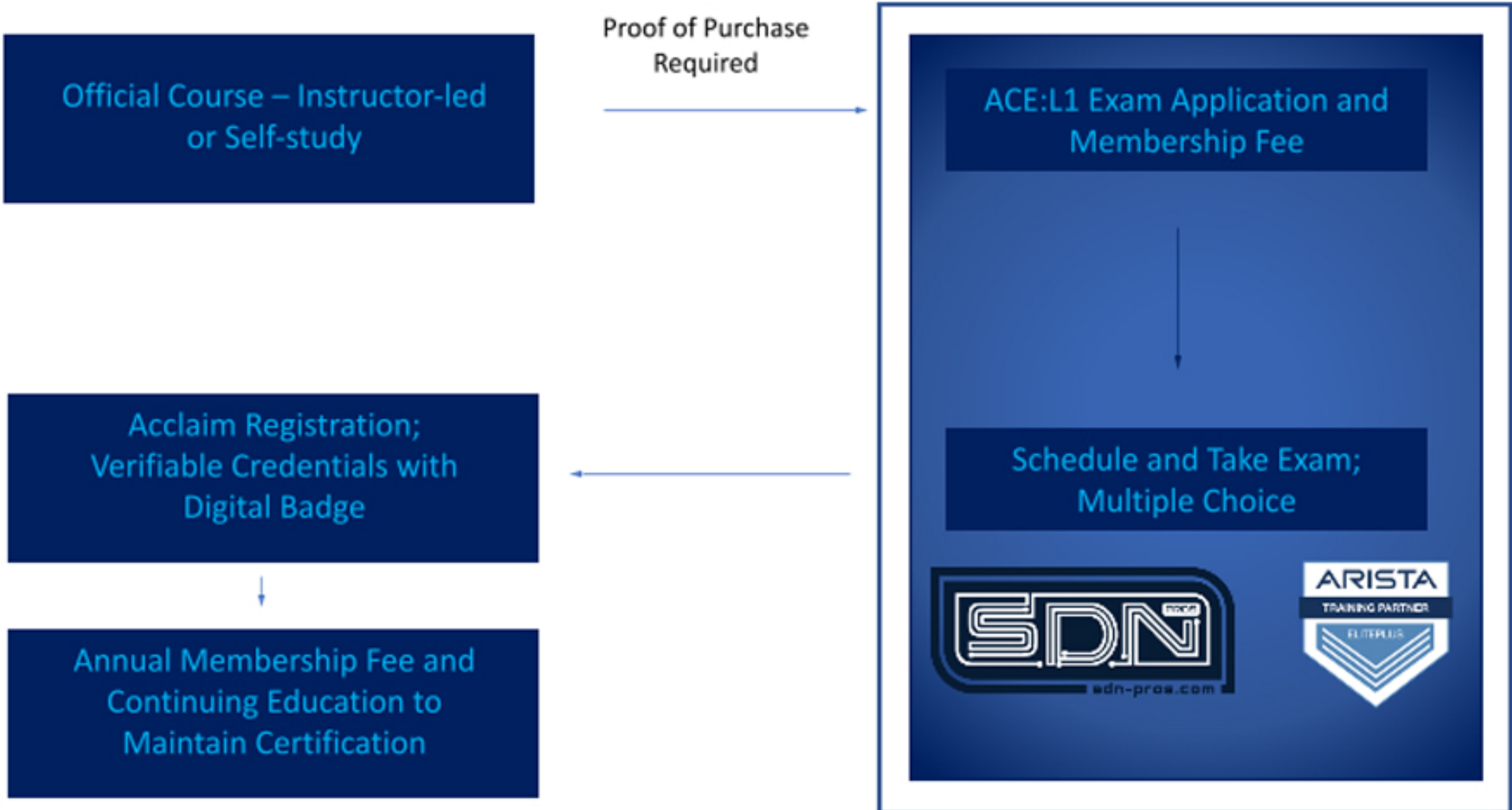
#### Module 7: CloudVision

- Intro to Automation and CloudVision
- Exploring the CloudVision Portal (CVP)
- Automating Configuration with Configlets
- Leveraging Change Control for Operations
- Day 2 Network Operations with Telemetry

### Course Labs

ACE:L1 includes numerous hands-on labs. At time of purchase, you will have numerous options for lab time with both the instructor-led and self-study packages. Most packages include 3-weeks of lab time. For the instructor-led courses, this includes the week of the course as well as two additional weeks to work on labs on your own. Every engineer is given their own dedicated environment and will not be required to share with others. The labs are built on the latest released vEOS and CloudVision codes and deployed in an AWS environment. This allows you to connect from anywhere and anytime. This is actual code and not simulators.

### Exam Requirements



### Follow-on Courses / Certifications

#### ACE : L2



#### Product Specialties



#### Vertical Specialties



CloudVision

DMF

Campus

Service  
Provider

Global  
Financial

Media &  
Entertainment