



Arista Cloud Engineer

Level 3 – Cloud Journeyman



ACE:L3 Data Sheet
v2021.1



Course Duration: 5 days

Topics At-a-Glance:

- Arista UCN L2 Leaf-Spine
- Arista UCN L3 Leaf-Spine
- OSPF & IS-IS
- BGP, Communities, Route Reflectors, Route Distinguisher and Route Targets
- LFS & BFD
- MP-BGP
- VXLAN & EVPN Architecture and Route Types
- Integrated Routing and Bridging (IRB) – SYM & ASY
- Multicast – Underlay and Overlay models with EVPN
- QoS
- Security – MSS, WIPS, DMF, Awake
- Advanced Campus Features
- CVP



Course Objectives

The ACE Level 3 course is designed around Arista’s cutting-edge Software Defined Cloud Networks architecture. Engineers will master the core technologies found in most modern corporate networks today. Technologies such as MP-BGP, eBGP underlays, EVPN and VXLAN are a major focus of ACE:L3. In addition, traffic engineering, troubleshooting and security are examined in depth to include: QoS, Multicast, 802.1x, MSS, WIPS and DMF.

Target Audience

The ACE Level 3 course is best suited for individuals with 2-5 years of experience in the Network Engineering Field and are comfortable with common layer 2 and layer 3 technologies and configurations. Mid-to-senior level Network Engineers and Operations staff will find the skills most often searched for by corporations for these positions. Engineers looking to cross over from siloed skillsets in networking and wanting to embrace the whole network to include DC, Campus and monitoring will grow their relevance to modern architectures. Those individuals holding current or expired Professional certifications in other vendor programs will find a refreshed and updated approach. ACE:L3 focuses on the features and skills needed in every network. You will not waste energy learning outdated technologies, approaches or tasks no longer used in open networks.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: CloudVision Introduction

- Intro to CloudVision
- Configlet and Container Plan

Module 2: Universal Cloud Networking – L3LS

- L2LS Review and Config Walkthrough
- Underlay and Overlay Design Options
- BGP – Address Families, Communities, Route Reflectors/Distinguishers /Targets
- L3LS Design with BGP

Module 3: VXLAN

- Packet Structure, Data/Control Planes and General Operations
- Address Learning, BUM/BULL traffic
- VTEP and VNI Design and Configuration

Module 4: EVPN

- Packet Structure, Data/Control Planes and General Operations
- MP-BGP
- Route Types
- IRB EVPN A/A ESI Multihoming
- EVPN Troubleshooting

Module 5: Multicast

- PIM, IGMP, MSDP
- Multicast in the Underlay
- Multicast in the Overlay with EVPN

Module 6: QoS

- Modes and Configuration
- Traffic Classes and ECN
- PFC and Policing

Module 7: Security

- MSS
- Wi-Fi WIPS
- Leveraging DMF for Security
- Leveraging Awake for Security
- Campus Security

Module 8: Advanced Campus

- Connecting the Campus LS to DC
- Arista WiFi Features
- WiFi 6 Enhancements
- CloudVision Wi-Fi Advanced Features

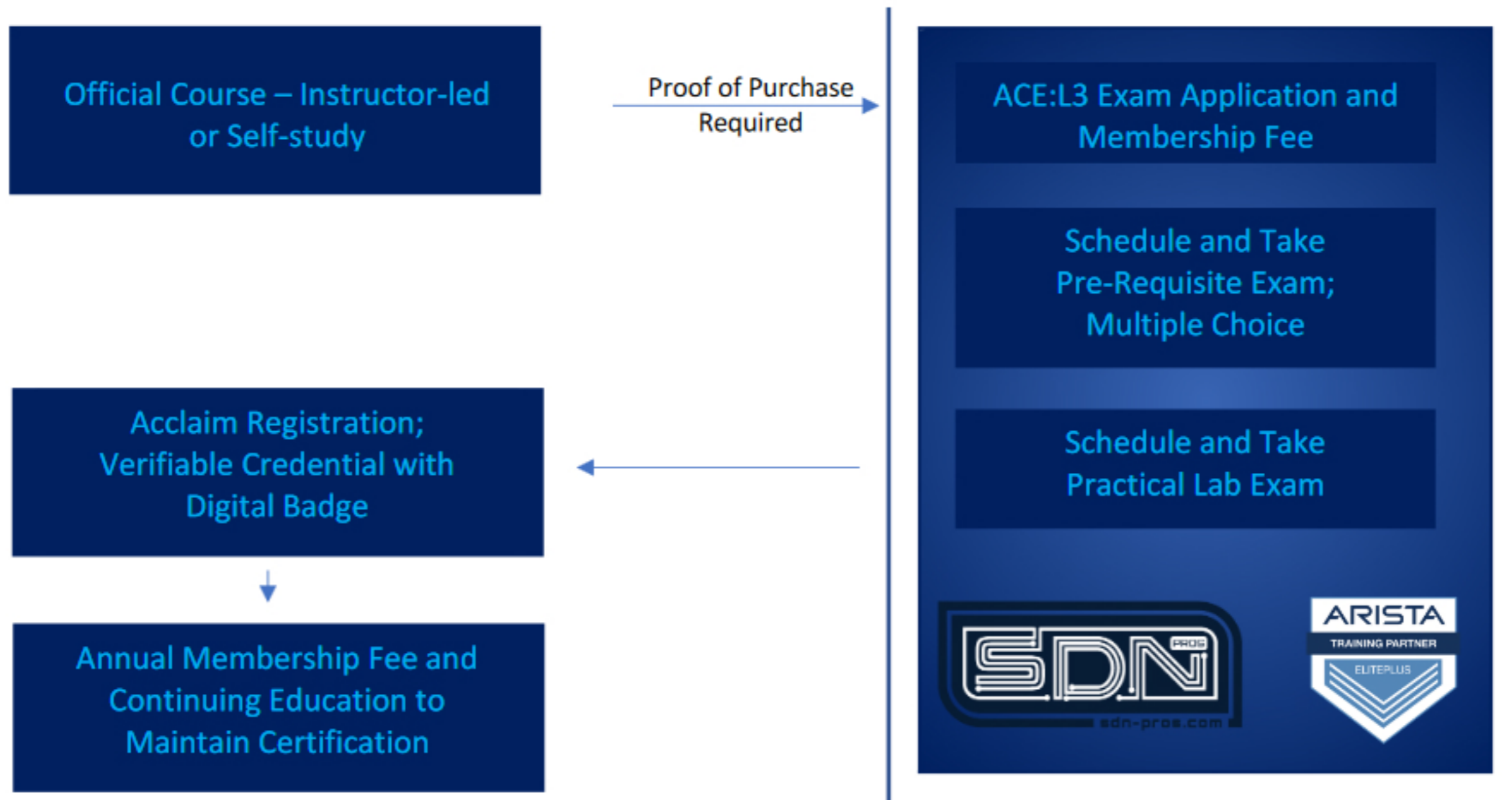
Module 9: CloudVision (CVP)

- Installation and Initial Switch Behavior
- Change Control, Snapshots, and Rollbacks
- Day 2 Operations

Course Labs

ACE:L3 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 : L4



Product Specialties



Vertical Specialties

