



Arista Cloud Engineer

Level 4 – Cloud Professional



ACE:L4 Data Sheet
v2021.1



Course Duration: 5 days

Topics At-a-Glance:

- Advanced Routing and Service Provider Connectivity with BGP and IS-IS
- iBGP, IS-IS, OSPF in LS
- Policy-based Routing & Route Maps
- DCI with EVPN/VXLAN/MPLS
- FlexRoute – Internet & WAN Routing
- MPLS
- Segment Routing
- SR-TE – EVPN MPLS L3VPN
- AnyCloud – vEOS & cEOS
- Hybrid Cloud with AWS, Google, Azure
- CVaaS



Course Objectives

The ACE Level 4 course is focused on more advanced DataCenter, DCI, WAN and Service Provider architectures. Engineers will explore the advanced routing capabilities available within Arista hardware and EOS. Topics such as leveraging VXLAN and MPLS between data center sites, leveraging IS-IS and OSPF for underlay routing, and Segment Routing will be discussed in depth. Advanced routing configuration and troubleshooting within service provider connectivity will be examined. Arista's hybrid cloud solution leveraging AnyCloud and vEOS will also be covered.

Target Audience

The ACE Level 4 course is best suited for individuals with more than 5 years of experience in the Network Engineering Field and are comfortable with routing protocols. Mid-to-senior level Network Engineers and Operations staff will find the skills most often searched for by corporations for these positions. Those individuals holding current or expired Professional certifications in other vendor programs will find a refreshed and updated approach. ACE:L4 focuses on the features and skills needed in advanced networks. You will not waste energy learning outdated technologies, approaches or tasks no longer used in open networks.

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: Advanced Leaf-Spine Architectures

- IP Unnumbered OSPF and BGP
- iBGP Route Reflectors
- IS-IS
- Route Maps and Policy Based Routing
- Multicast in the Underlay and Overlay

Module 2: Data Center Interconnect

- VXLAN
- EVPN
- CVX
- MPLS
- FlexRoute
- WAN and Internet Peering

Module 3: MPLS

- Packet Structure, Data/Control Planes and General Operations
- Label Distribution – Signaling
- L2 and L3 EVPN – IPv4 VPN
- Route Types

Module 4: Segment Routing

- Labels
- BGP and MPLS
- SR-TE
- MPLS IP VPN Services
- EVPN MPLS L3VPN

Module 5: Advanced Routing Features

- Advanced BGP
- Advanced IS-IS

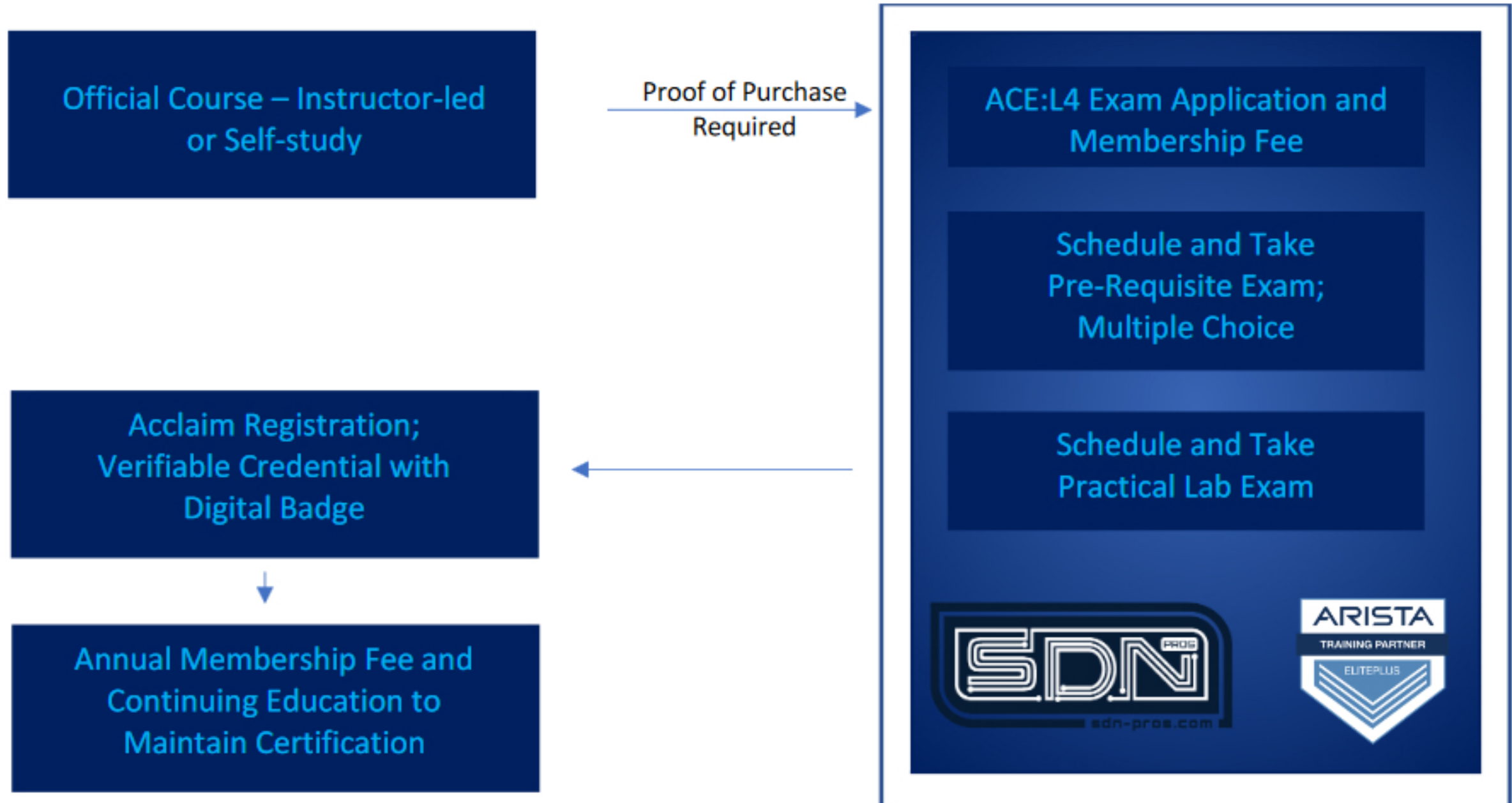
Module 6: Hybrid, Private and Public Cloud

- AnyCloud Solution
- vEOS and CloudEOS
- Configuring AWS, Google and Azure
- CVP for Cloud
- CVaaS

Course Labs

ACE:L4 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 : L5



Product Specialties



Vertical Specialties



CloudVision

DMF

Campus

Service Provider

Global Financial

Media & Entertainment