

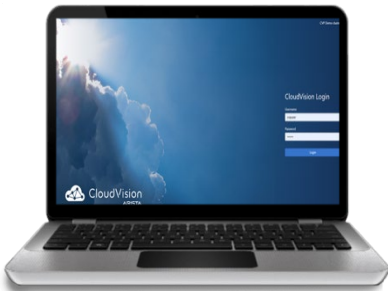


Arista Cloud Engineer

Level 1 / Media and Entertainment



ACE:L1/M&E Data Sheet
v2021.1



Course Duration: 5 days

Topics At-a-Glance:

- Intro to M&E
- Intro to Networking
- OSI – Ethernet
- TCP – UDP
- IPv4
- Intro to Arista EOS
- Intro to CloudVision
- Intro to Layer 2
- VLANs & Spanning Tree
- VRRP – VARP
- Intro to Layer 3
- OSPF
- Intro to Leaf-Spine
- Intro to VXLAN
- Navigating the CLI
- Configuring Core Tasks
- M&E Architectures
- PTP



Course Objectives

The ACE Level 1/M&E course is designed to establish a firm foundation in open networking and Arista EOS for the Media and Entertainment engineer. 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 M&E environments. Engineers will be introduced to automation and Arista's CloudVision Solution.

Target Audience

The ACE Level 1/M&E course is best suited for individuals entering the Media and Entertainment 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 as an M&E Engineer. Engineers looking to cross over from other fields such as Server, Wireless, Storage, 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/M&E 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 You will not waste energy learning outdated technologies, approaches or tasks no longer used in open networks.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: The Move to IP

- M&E Specific Drivers

Module 2: Network Engineering Fundamentals

- OSI in Today's Networks
- Ethernet, TCP/UDP, IPv4
- Layer 1 Cabling – Modern Connectivity

Module 3: Working with Arista EOS

- EOS/CLI Overview
- Zero Touch Provisioning (ZTP)
- VRRP – VARP

Module 4: CloudVision

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

Module 5: 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 6: Layer 3 Operations

- Routing Fundamentals
- Configuring OSPF in a Leaf-Spine Design
- Internet Peering with a Service Provider

Module 7: BGP

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

Module 8: Multicast

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

Module 9: 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 10: Scalable IP Architecture

- IP Architecture for M&E

Module 11: PTP

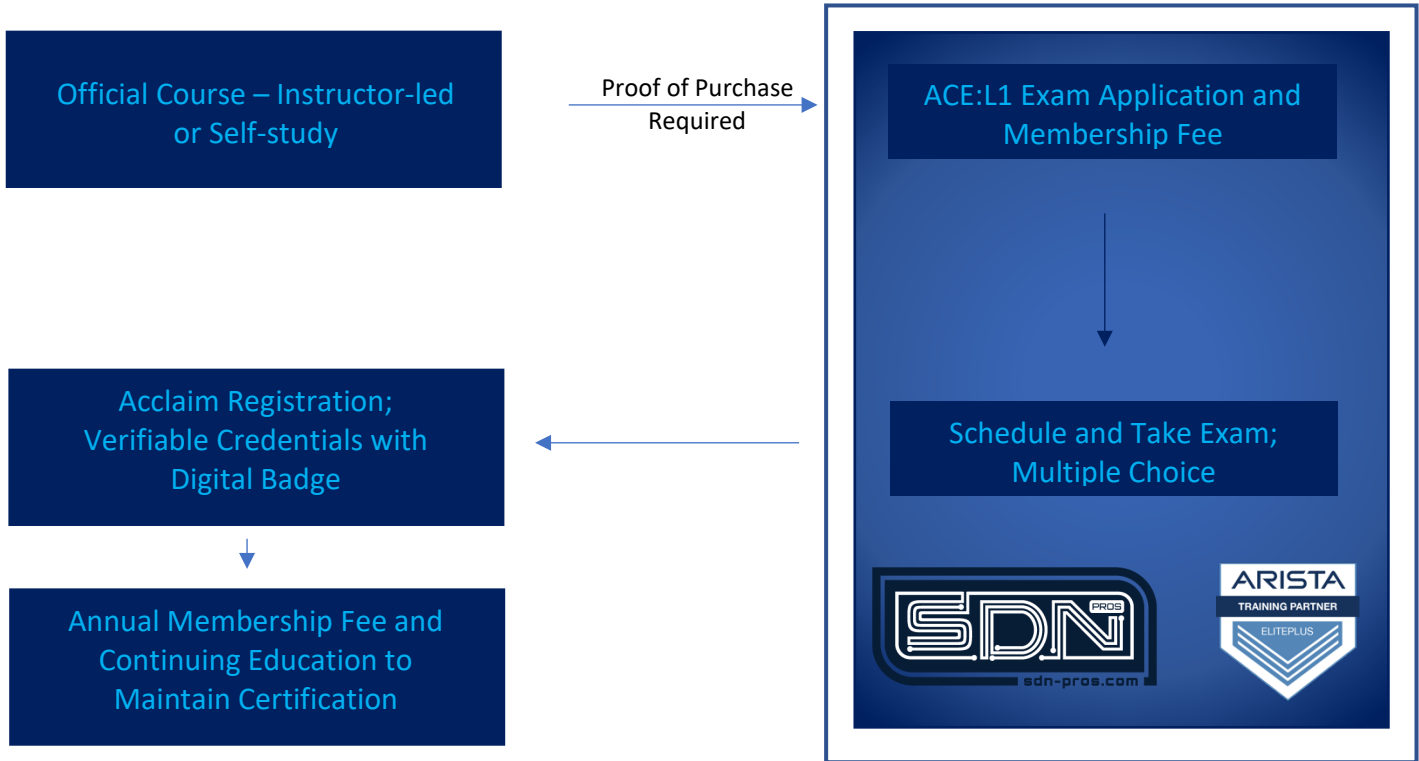
- Precision Time Protocol
- Recommended Practices for Network Architecture
- Recommended Practices for PTP
- PTP Configuration, Commissioning, and Operation

Course Labs

ACE:L1/M&E 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



CloudVision



DMF



Campus

Vertical Specialties



Service
Provider



Global
Financials



Media &
Entertainment

For more information on courses, registration or exams
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