# Arista Cloud Engineer
# Level 3 - Cloud Journeyman (ACE: L3)

**Days:** *5*

**Description:** 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.

**Audience:** The ACE Level 3 course is best suited for individuals with 2-5 years of experience in the Network Engineering Field and is 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 You will not waste energy learning outdated technologies, approaches, or tasks no longer used in open networks.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.

**OUTLINE:**

## MODULE 1: CLOUDVISION

- Intro to CloudVision
- Configlet and Container Plan
- Installation and Initial Switch Behavior
- Change Control, Snapshots and Rollbacks
- Day 2 Operations
- CVP Studios

## 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

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## MODULE 6: QOS

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

## MODULE 7: SECURITY

- MSS
- WiFi 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 WiFi Advanced Features