



Course Training

HPE Aruba Networking Certified Associate - Switching (ACA-S) Exam HPE6 – A86

Course Content

This certification validates your fundamental skills to configure and manage modern, open standard-based networking solutions using HPE Aruba Networking OS-CX routing and switching technologies in small-to-midsized businesses (SMBs), edge, and simple core environments.

Course Objectives

After taking this course, you should be able to:

This certification validates your understanding of configuring and managing modern, open standard-based networking solutions using HPE Aruba Networking OS-CX routing and switching technologies. It also verifies your fundamental knowledge of implementing and validating small to medium-enterprise network solutions.

Earning this certification enables you to:

- Identify, describe, and apply foundational networking architectures and technologies.
- Identify, describe, and differentiate HPE Aruba Networking products' and solutions' functions and features.
- Install, configure, set up, and validate wired network solutions such as:
 - Virtual Local Area Networks (VLANs)
 - Redundancy technologies such as Multiple Spanning Tree Protocol (MSTP)
 - Link aggregation techniques, including Link Aggregation Control Protocol (LACP)
 - Switch virtualization with HPE Aruba Networking Virtual Switching Framework (VSF)
 - IP Routing, including static and dynamic routing with Open Shortest Path First (OSPF)
 - Network Analytic Engines (NAE)
- Troubleshoot, operate, and maintain HPE Aruba Networking solutions.
- Manage and monitor HPE Aruba Networking solutions.

Course Prerequisite

- Fundamental knowledge of network principles and the functions of network equipment like switches, routers, and wireless access points.
- Knowledge of the functions of each layer in the OSI Reference Model as well as its structure.
- An elementary understanding of IP addressing, including IPv4; includes concepts like CIDR notation and subnetting.

- Familiarity with common networking services and protocols, such as DNS, DHCP, TCP, and UDP.
- Knowledge of media, cabling, and Ethernet frames, as well as the Ethernet protocol.
- Basic knowledge of the decimal, hexadecimal, and binary number systems, as well as how to convert between them.
- Awareness of the various forms of network traffic, including multicast, broadcast, and unicast.

Who should attend

Typical candidates for this certification have at least six months of experience working as a junior team member who supports and maintains wired networks or works independently on limited-scope projects. Examples of job roles include network operator, tier 1/2 support, support technician, field technician, and network administrator.

Upon Completed

You will receive a congratulatory email from HPE within one-month maximum after having earned your certification. Then your status in The Learning Center becomes "acquired". Track your training and certification progress through your transcripts in The Learning Center.

Digital Badge

Based on the Open Badges Standard, digital badges are online representations of your HPE certifications. Each badge is unique to you. Once you accept and place your badge online—in LinkedIn, Twitter, your email signature, for example—clicking on the badge sends the viewer to a custom verification page that includes your name, HPE certification(s) held, and the skills and capabilities required of the certification.

Lab Task and Details

Day 1

Item	Subject	Details	Personal Lab & Devices	Remark
1	Layer 2	1.1 - L2 Access Management and Connectivity 1.2 - Spanning Tree Basics 1.3 - Deploying MSTP 1.4 - Loop Protect 1.5 - RPVST+ 1.6 – MVRP	Aruba CX Core & Access Switch	

Day 2

Item	Subject	Details	Personal Lab & Devices	Remark
2	Layer 3	2.1 - Deploying OSPFv2 2.2 - OSPFv2 Areas - Basics 2.3 - OSPF v2 Features 2.4 - OSPF Troubleshooting 2.5 - OSPFv3 Fundamentals 2.6 - OSPFv3 Troubleshooting	Aruba CX Core & Access Switch	

Day 3

Item	Subject	Details	Personal Lab & Devices	Remark
3	Layer 3 Services	3.1 - IPv4 DHCP 3.2 – Link Aggregation (LACP) 3.3 – VSF Configurations	Aruba CX Core & Access Switch	

Day 4

Item	Subject	Details	Personal Lab & Devices	Remark
4	Security	4.1 - ACLs 4.2 - Local MAC Match Authentication 4.3 - Local User Roles	Aruba CX Core & Access Switch	

Day 5

Item	Subject	Details	Personal Lab & Devices	Remark
5	NAE	5.1 Network Analytic Engines Concepts 5.2 Network Analytic Engines implement 5.3 Network Analytic Engines configuration	Aruba CX Core & Access Switch	