



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Puoi raggiungerci qui**

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# Implementing Aruba OS-CX Switching

<b>CODE:</b>	<b>LENGTH:</b>	<b>PRICE:</b>
ARU_IAOSCX	40 Hours (5 days)	Request Price

## Description

This course teaches you the advanced skills necessary to implement and operate enterprise level Aruba campus switching solutions. You will build on the skills you learned at the Associate level to configure and manage modern, open standards-based networking solutions using Aruba's OS-CX routing and switching technologies. In this course, participants learn about ArubaOS-CX switch technologies including: securing port access with Aruba's dynamic segmentation, redundancy technologies such as Multiple Spanning Tree Protocol (MSTP), link aggregation techniques including Link Aggregation Protocol (LACP) and switch virtualization with Aruba's Virtual Switching Extension (VSX) and Aruba's Virtual Switching Framework (VSF). This course is approximately 50% lecture and 50% hands-on lab exercises.

## Objectives

After you successfully complete this course, expect to be able to:

Use NetEdit to manage switch configurations  
Use the Network Analytics Engine (NAE) to implement scripting solutions to provide for proactive network management and monitoring  
Compare and contrast VSX, VSF, and backplane stacking  
Explain how VSX handles a split-brain scenario  
Implement and manage a VSX fabric  
Define ACLs and identify the criteria by which ACLs select traffic  
Configure ACLs on AOS-CX switches to select given traffic  
Apply static ACLs to interfaces to meet the needs of a particular scenario  
Examine an ACL configuration and determine the action taken on specific packets  
Deploy AOS-Switches in single-area and multi-area OSPF systems  
Use area definitions and summaries to create efficient and scalable multiple area designs  
Advertise routes to external networks in a variety of OSPF environments  
Promote fast, effective convergence during a variety of failover situations  
Use virtual links as required to establish non-direct connections to the backbone  
Implement OSPF authentication  
Establish and monitor BGP sessions between your routers and ISP routers  
Advertise an IP block to multiple ISP routers  
Configure a BGP router to advertise a default route in OSPF  
Use Internet Group Management Protocol (IGMP) to optimize forwarding of multicast traffic within VLANs  
Describe the differences between IGMP and IGMP snooping  
Distinguish between PIM-DM and PIM-SM  
Implement PIM-DM and PIM-SM to route multicast traffic  
Implement Virtual Routing Forwarding (VRF) policies to contain and segregate routing information  
Create route maps to control routing policies  
Understand the use of user roles to control user access on AOS-CX switches  
Implement local user roles on AOS-CX switches and downloadable user roles using a ClearPass solution  
Implement 802.1X on AOS-CX switch ports  
Integrate AOS-CX switches with an Aruba ClearPass solution, which might apply dynamic role settings  
Implement RADIUS-based MAC Authentication (MAC-Auth) on AOS-CX switch ports  
Configure captive portal authentication on AOS-CX switches to integrate them with an Aruba ClearPass solution  
Combine multiple forms of authentication on a switch port that supports one or more simultaneous users  
Configure dynamic segmentation on AOS-CX switches  
Explain how technologies such as sFlow and traffic mirroring allow you to monitor network traffic  
Describe how AOS-CX switches prioritize traffic based on its queue  
Configure AOS-CX switches to honor the appropriate QoS marks applied by other devices  
Configure AOS-CX switches to select traffic, apply the appropriate QoS marks, and place the traffic in the proper priority queues  
Implement rate limiting  
Understand how the Virtual Output Queuing (VOQ) feature mitigates head-of-line (HOL) blocking  
Configure a voice VLAN and LLDP-MED

## **Audience**

Typical candidates for this course are IT Professionals who will deploy and manage networks based on HPE's ArubaOS-CX switches.

## **Prerequisites**

ArubaOS-CX Switching Fundamentals (CXF)

## **Programme**

Introduction to Aruba Switching  
NetEdit  
Network Analytics Engine (NAE)  
VSX  
ACLs  
Advanced OSPF  
BGP  
IGMP  
Multicast Routing: PIM  
802.1X Authentication  
MAC Authentication  
Dynamic Segmentation  
Quality of Service  
Additional Routing Technologies  
Captive Portal Authentication

## **Test and Certification**

Questo corso è parte della seguente certificazione: Aruba Certified Switching Professional (ACSP)

## **Session Dates**

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a [training.ecs.it@arrow.com](mailto:training.ecs.it@arrow.com)

## **Informazioni aggiuntive**

[Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.](#)