

# Implementing Aruba OS-CX Switching, Rev. 20.21

**Duration:** 40.00 hours (5 days)

**32.5 CPD Hours**

**Rating:** ★ 4.6 (5,878 reviews)

## Course Information

**Delivery Format:** Instructor Led - Online

## Course Overview

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 Aruba OS-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.

## About This Course

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.

## **Who Should Attend**

---

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

# Learning Outcomes

---

## **Upon successful completion of this course, participants will be able to:**

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

## Additional Course Details

---

Nexus Humans Implementing Aruba OS-CX Switching, Rev. 20.21 training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the Implementing Aruba OS-CX Switching, Rev. 20.21 course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

# Frequently Asked Questions

---

## **Q: What delivery options are available for Implementing Aruba OS-CX Switching, Rev. 20.21?**

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
  - Traditional Instructor-Led Classroom Training (ILT)
  - On-site delivery at your offices anywhere in United Kingdom
  - Private dedicated courses customized for your team
- 

## **Q: How many CPD hours does this course provide?**

The 5-day Implementing Aruba OS-CX Switching, Rev. 20.21 course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

---

## **Q: What is the duration of the Implementing Aruba OS-CX Switching, Rev. 20.21 training?**

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

---

## **Q: Do you provide corporate training for Implementing Aruba OS-CX Switching, Rev. 20.21?**

Yes, we provide corporate training, dedicated training, and closed classes for Implementing Aruba OS-CX Switching, Rev. 20.21. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

---

## Q: Why choose Nexus Human for Implementing Aruba OS-CX Switching, Rev. 20.21?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:


- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

## Q: Are there any discount codes available?


Yes! Use discount code **PENPAL5** when booking your Implementing Aruba OS-CX Switching, Rev. 20.21 training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

## Nexus Human

### Professional Training & Development

 Email: [info@nexushuman.com](mailto:info@nexushuman.com)

 Website: [www.nexushuman.com](http://www.nexushuman.com)

 Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)