

# HPE Aruba Networking ClearPass Advanced Configuration, Rev. 25.23

## Course description

In the 5-day HPE Aruba Networking ClearPass Advanced Configuration course, you will learn how to design, deploy, and troubleshoot several aspects of the ClearPass security product. This course includes both instructional modules and hands-on labs to teach you about advanced features of the ClearPass portfolio.

## Ideal candidate for this course

Ideal candidates include network professionals who are looking to build their advanced knowledge of ClearPass.

## Suggested prerequisites

HPE Aruba Networking ClearPass Configuration course

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Course ID</b>                                                                                                                                                                          | 0001212505                                                                                                                      |
| <b>Course format, Typical duration</b>                                                                                                                                                    | <b>Select one:</b> ILT - Instructor Led, 5 days<br>VILT - Virtual Instructor Led, 5 days<br>WBT - Web Based, Self Paced, 5 days |
| <b>Skill level</b>                                                                                                                                                                        | Intermediate (INT)                                                                                                              |
| <b>Delivery languages</b>                                                                                                                                                                 | English                                                                                                                         |
| <b>Lab required</b>                                                                                                                                                                       | No                                                                                                                              |
| <a href="#">Register for this course.</a><br>Find this course offering in the Training calendar. Click "Register" to take the course in The Learning Center. Login and Password required. |                                                                                                                                 |

## Topics

- **Public Key Infrastructure**
  - Describe PKI infrastructure
  - Evaluate the advantages and disadvantages of public and private PKIs
  - Understand best practices for public and private certificates on ClearPass
- **ClearPass cluster**
  - The licensing module for ClearPass
  - Request certificates for RADIUS and HTTPS
  - Upgrade the ClearPass system
  - Run and secure backups
- **Upgrade ClearPass cluster**
  - Describe ClearPass cluster upgrade procedures
  - Analyze best practices on cluster updates
- **Cluster troubleshooting**
  - Revise common upgrade failures
  - Assess and troubleshoot failed cluster upgrades
- **Enrollment over Secure Transport**
  - Define EST
  - EST's main components
  - Configure and monitor ETS
- **RadSec**

- Describe RadSec, its main components and characteristics
- Configure RadSec
- Troubleshoot RadSec
- **ClearPass access request process**
  - Describe the service classification and match process
  - The process of an access request
  - Perform services troubleshooting
- **Creating services and rules manually**
  - Describe the process of manually creating a service and its dependencies
  - Manually configure new services, enforcement policies and profiles
  - Explore the different parts of a service and best practices of naming convention and maintenance
- **Dual SSID OnBoard**
  - Compare single and dual SSID device onboarding
  - The benefits of dual SSID onboarding
  - Configure dual SSID onboarding
  - Managing user certificates
- **Implementing MPSK**
  - MPSK concept
  - Configure MPSK with user self-registration
  - Configure MPSK for a device group
  - Troubleshooting MPSK
- **Wired onboarding/profiling**
  - Onboarding process for wired devices
  - Configure services for wired devices onboard
  - Troubleshoot wired authentication and profiling
- **Dynamic Segmentation - BYOD, employee, and guest**
  - Concepts of dynamic segmentation
  - ClearPass functions related to dynamic segmentation
  - Configure downloadable user roles to support dynamic segmentation

## Objectives

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

- Deploy a complete and resilient Network Access Control (NAC) security solution based on HPE Aruba Networking ClearPass.
- Understand the HPE Aruba Networking ClearPass logic to handle different authentication events.
- Implement a secure network that follows the principles of the Zero Trust Security (ZTS) architecture.

## How to register

Click on this link to register for this course: <https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001212505>

## Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

## For more information

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