

# Aruba ClearPass Essentials, Rev. 20.11 (0001131083) H9TD8S

<b>HPE course number</b>	H9TD8S
<b>Course length</b>	5 days
<b>Delivery mode</b>	ILT/VILT
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This course provides the foundational skills in network access control using the ClearPass product portfolio. This course includes both instructional modules and labs to teach participants about the major features in the ClearPass portfolio. Participants learn how to setup ClearPass as an AAA server, and configure the Policy Manager, Guest, OnGuard and Onboard feature sets. In addition, this course covers integration with external Active Directory servers, monitoring and reporting, and deployment best practices. The student gains insight into configuring authentication with ClearPass on both wired and wireless networks.

## Audience

Ideal candidates include network professionals who are looking to build foundational knowledge of the ClearPass product portfolio.

## Course objectives

After successful completion of this course, you should be able to:

- Setup ClearPass as a AAA server
- Demonstrate the configuration of Guest, OnGuard, Onboard and Profiling features
- Integrate with external Active Directory (AD) servers
- Understand monitoring and reporting
- Demonstrate scaling and deployment of best practices
- Configure AAA services for both wired and wireless networks
- Demonstrate the configuration of Aruba Downloadable User Roles.
- Demonstrate the configuration of dynamic segmentation with Aruba switches.

## Detailed course outline

<b>Introduction to ClearPass</b>	<ul style="list-style-type: none"> <li>• BYOD</li> <li>• High level overview</li> </ul>	<ul style="list-style-type: none"> <li>• Posture and Profiling</li> <li>• Guest and Onboard</li> </ul>
<b>ClearPass for AAA</b>	<ul style="list-style-type: none"> <li>• Policy service rules</li> <li>• Authentication, authorization and roles</li> </ul>	<ul style="list-style-type: none"> <li>• Enforcement policy and profiles</li> </ul>
<b>Authentication and Security Concepts</b>	<ul style="list-style-type: none"> <li>• Authentication types</li> <li>• Servers</li> <li>• Radius Change of Authorization (COA)</li> </ul>	<ul style="list-style-type: none"> <li>• Active Directory</li> <li>• Certificates</li> </ul>
<b>Intro to Network Access Device (NAD)</b>	<ul style="list-style-type: none"> <li>• NAD devices</li> <li>• Adding NAD to ClearPass</li> <li>• Network device groups</li> <li>• Network device attributes</li> </ul>	<ul style="list-style-type: none"> <li>• Aruba Controller as NAD</li> <li>• Aruba Switch</li> <li>• Aruba Instant</li> </ul>
<b>Monitoring and Troubleshooting</b>	<ul style="list-style-type: none"> <li>• Monitoring</li> <li>• Troubleshooting</li> </ul>	<ul style="list-style-type: none"> <li>• Logging</li> <li>• Policy simulation</li> </ul>
<b>ClearPass Insight</b>	<ul style="list-style-type: none"> <li>• Insight dashboard</li> <li>• Insight reports</li> <li>• Insight alerts</li> </ul>	<ul style="list-style-type: none"> <li>• Insight search</li> <li>• Insight administration</li> <li>• Insight replication</li> </ul>
<b>Active Directory</b>	<ul style="list-style-type: none"> <li>• Adding AD as auth source</li> <li>• Joining AD domain</li> </ul>	<ul style="list-style-type: none"> <li>• Using AD services</li> </ul>
<b>External Authentication</b>	<ul style="list-style-type: none"> <li>• Multiple AD domains</li> <li>• LDAP</li> <li>• Static host Lists</li> </ul>	<ul style="list-style-type: none"> <li>• SQL database</li> <li>• External radius server</li> </ul>
<b>Guest</b>	<ul style="list-style-type: none"> <li>• Guest account creation</li> <li>• Web login pages</li> <li>• Guest service configuration</li> <li>• Self-registration pages</li> <li>• Configuring NADS for Guest</li> </ul>	<ul style="list-style-type: none"> <li>• Guest manager deep dive</li> <li>• Web login deep dive</li> <li>• Sponsor approval</li> <li>• MAC caching</li> </ul>
<b>Onboard</b>	<ul style="list-style-type: none"> <li>• Intro to Onboard</li> <li>• Basic Onboard setup</li> <li>• Onboard deep dive</li> </ul>	<ul style="list-style-type: none"> <li>• Single SSID onboarding</li> <li>• Dual SSID onboarding</li> </ul>
<b>Profiling</b>	<ul style="list-style-type: none"> <li>• Intro to profiling</li> </ul>	<ul style="list-style-type: none"> <li>• Endpoint analysis deep dive</li> </ul>
<b>Posture</b>	<ul style="list-style-type: none"> <li>• Intro to Posture</li> <li>• Posture deployment options</li> <li>• OnGuard Agent Health collection</li> <li>• OnGuard workflow</li> </ul>	<ul style="list-style-type: none"> <li>• 802.1x with Posture using persistent/dissolvable agent</li> <li>• OnGuard web login</li> <li>• Monitoring and updates</li> </ul>

<b>Operation and Admin Users</b>	<ul style="list-style-type: none"> <li>• Operations</li> </ul>	<ul style="list-style-type: none"> <li>• Admin users</li> </ul>
<b>Clustering and Redundancy</b>	<ul style="list-style-type: none"> <li>• Clustering</li> <li>• Redundancy</li> </ul>	<ul style="list-style-type: none"> <li>• LAB</li> </ul>
<b>Licensing</b>	<ul style="list-style-type: none"> <li>• ClearPass licensing</li> <li>• Base license</li> </ul>	<ul style="list-style-type: none"> <li>• Applications</li> </ul>
<b>ClearPass Exchange</b>	<ul style="list-style-type: none"> <li>• Intro</li> <li>• Examples</li> </ul>	<ul style="list-style-type: none"> <li>• General HTTP Palo Alto firewall</li> <li>• Configuration</li> </ul>
<b>Case Study</b>	<ul style="list-style-type: none"> <li>• Objectives</li> <li>• Discussion</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced labs overview</li> </ul>
<b>Wired Port Authentication</b>	<ul style="list-style-type: none"> <li>• 802.1X for access layer switch ports</li> <li>• Profiling on wired networks</li> </ul>	<ul style="list-style-type: none"> <li>• Configuration of dynamic segmentation</li> </ul>
<b>Aruba Downloadable User Roles</b>	<ul style="list-style-type: none"> <li>• Downloadable User Role enforcement in ClearPass</li> <li>• Aruba Controller/Gateway configuration</li> </ul>	<ul style="list-style-type: none"> <li>• Aruba Switch configuration</li> <li>• Troubleshooting</li> </ul>

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