



Aruba Solutions part 1 SOL HOLJ6S

HPE course number	HOLJ6S
Course length	5 days
Delivery mode	ILT/VILT
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The lab-intensive Solutions Part 1 course is designed to provide students a foundation in WLAN technologies including IEEE 802.11 standards and amendments, Enterprise Security concepts with a focus on BYOD solutions, and the unique requirements of mobile devices and application such as voice and video. Instructor lecture and hands-on labs illustrate the basics of RF technologies and how RF behavior affects performance of a WLAN. Students will use Spectrum Analysis to determine the RF environment and optimize a WLAN for a given RF environment.

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Audience

- Network Administrators and Engineers who will be supporting mobile devices on a WLAN
- Customers and partners who want a better understanding of the requirements and needs of mobile devices in a WLAN
- Anyone who wants a better understanding of the fundamentals of WLAN standards, security device and optimizing a WLAN for mobile application and devices

Prerequisites

- An understanding of basic networking concepts and TCP/IP are necessary
- A conceptual understanding of VLANs and data traffic flow in a wired network environment is useful as well
- Networking Fundamentals (Recommended)

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: This course covers the following topics

- Wi-Fi Organizations and Standards
 - Using spectrum analysis to determine channels and devices
 - Components of the Physical WLAN Infrastructure
 - Using Spectrum Analysis to determine interference sources
 - Logical WLAN Configuration
 - RF Components of a WLAN system
 - Understanding RF signal propagation
 - Determining and viewing antenna radiation patterns
 - RF characteristics and behavior
 - WLAN Performance and Optimization
 - WLAN Security Overview
 - User Authentication
 - PSK / Passphrase Authentication
 - X509 Certificates
 - Client and Server Side Certificates
 - Configuring NPS
 - Configuring 802.1x /EAP on a RADIUS server
 - Configuring Web Authentication
 - Using WLAN Encryption
 - Wireless Intrusion Protection System (WIPS)
 - Rogue AP locating
 - Wireless Intrusion Protection System
 - Air Monitoring
 - Mobile Device Overview
 - Mobile Device Types and Characteristics
 - Using Voice and Video multimedia Applications
 - Battery life management
 - Roaming and Quality of Service
 - Wi-Fi Access for corporate devices
 - Wi-Fi Access for non-corporate device
 - Connecting to a Guest WLAN using a non-corporate device
 - Mobile Device Access Control
 - Optimizing the Network for Mobile Devices
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Course data sheet

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