



# Solutions Part 1

## HOLJ6S

### Course Overview

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.

<b>Price</b>	USD \$2,400
<b>Links to local schedules, pricing and registration</b>	<a href="#">US/Canada</a>
<b>Course title</b>	Solutions Part 1
<b>HP course #</b>	HOLJ6S
<b>Category</b>	Networking
<b>Duration</b>	5 days

### 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)

### Course outline

#### **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
- X.509 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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