

NW-104: WLAN Networking & Security Concepts

Course Number NCO-NW104
Level Foundation
Duration 1 Day

Classroom
 Virtual Classroom
 Self Paced

Course Description

The “WLAN Networking & Security Concepts” is a 1-day technical training course providing a introduction to WLAN technology intended for professionals with little exposure to wireless.

Intended Audience

The prospective audience is mainly targeted at WLAN installers who have little or no experience or knowledge of WLAN operation. This course will be the foundation course for standard vendor WLAN training courses.

Course Prerequisites

- None

Course Outline

- Module 01—What is Wi-Fi
 - *Wi-Fi Overview*
 - *Radio Frequency (RF) encoding technologies*
 - *Relevant LAN and Wireless LAN Standards*
 - *Relevant Internet Standards*
- Module 02 – RF and Wi-Fi
 - *RF Loss & Gain*
 - *Antennas*
 - *RF Signal Propagation*
 - *Measuring RF Signals*
 - *RF Surveys & Planning*
- Module 03 –Wi-Fi RF Access Techniques
 - *Wi-Fi RF Spectrum*
 - *802.11a Access Techniques*
 - *802.11b/g Access Techniques*
 - *802.11n Access Techniques*
 - *802.11ac Access Techniques*

- Module 04 –Wi-Fi Data Transmission
 - *802.11 Data Transmission Overview*
 - *802.11 CSMA/CA Operation*
 - *802.11 Connections & Roaming*
 - *802.11 Quality of Service & Power Saving*
- Module 05 –Wi-Fi Security
 - *Overview of Security Threats*
 - *Wi-Fi Authentication and Encryption Techniques*
 - *Wi-Fi Protected Access (WPA)*
 - *WPAv2 and 802.11i Robust Security Networks*
 - *Wi-Fi Security Recommendations*