

Course ID

WIFI

Course Duration

1 day

Related Courses

Course Title

WiFi for Managers

- Wi-Fi LAN Operation & Security (WIFI-NOS, 4 days)
- WIFI for Those Familiar with Cellular Systems (WIFI-TO, 3 days)
- Bluetooth Operation, Security, Applications, Coexistence (BLUEOP, 3 days)
- ZigBee Hands-on (ZIGLAB, 2 days)

Aimed At

Managers, planners/strategists, marketing/sales professionals, procurement personnel, and others who need a less technical overview of WiFi. A 2-3 day WiFi course, aimed at technical audiences, is also available.

Group Size

5-25

Course in a Nutshell

Clearly, WiFi will continue to be an important force in the market for some time to come. In this course, you will learn how WiFi evolved, how it works, its applications, various WiFi standards and flavors, comparison with related technologies, how WiFi networks are designed and deployed, and the future of WiFi.

Customize It!

We can customize this course to your specific needs at little to no added cost, e.g., to make it more or less technical or to focus on the particular issues of interest to you.

Learn How To

- List the major player involved in WiFi
- Describe the major applications of WiFi
- Explain the basic principles underlying the operation of WiFi
- Describe the capabilities of the various WiFi standards
- Diagram the basic components and operation of a WiFi network
- Summarize how WiFi networks are designed, deployed, and optimized
- Discuss WiFi's relationship with other technologies

**Course
Outline**

- Telecom, RF, and Wireless Basics
 - Networking basics
 - LANs and WANs
 - RF basics
 - Mobile and fixed wireless technologies
- Introduction to WiFi
 - What is WiFi
 - WiFi equipment vendors
 - Wi-Fi applications
 - Current and projected market for WiFi
- How WiFi Works
 - Technical principles that underlie WiFi operation
 - Frequency bands
 - Components of a WiFi network
- 802.11 Standards Evolution
 - Standards review: 802.11b, 802.11g, 802.11n, 802.11ac, 802.11ad
 - Standards (contd.): 802.11ah, 802.11aj, 802.11ax
 - Comparison of capabilities, strengths, and limitations
 - Compatibility considerations and issues
- Procuring, Designing, and Deploying a WiFi Network
 - Design and optimization process and tools
 - Deployment process
 - Security considerations and issues
 - Campus-wide and city-wide deployments
 - Muni Wi-Fi or Muni-Fi
 - Managing a WiFi system
- Flavors, Related Technologies, Future Evolution
 - A bit about WiMAX (though no relation to WiFi)
 - Long-range WiFi
 - Ad Hoc WiFi, WiFi Direct
 - Super 'WiFi'
 - Comparing WiFi, Bluetooth, ZigBee
 - Wi-Fi and IPTV
 - Future evolution of WiFi

- Other issues of interest to class
- Wrap-Up: Course Recap, Q/A, and Evaluations

DCN NTDR-Knm-f