

Course ID

WIFI

Course Duration

1 day

Course Title

**State-of-the-art of WiFi for Non-engineering Professionals,
Managers, and Executives**

Aimed At

Managers and professionals including planners, strategists, marketing specialists, sales representatives, procurement personnel, and others whose job requires a non-technical overview of WiFi.

Group Size

5-25

**Course
In a Nutshell**

WiFi has become as prevalent a technology at home as it is at work. WiFi-equipped computers and other devices continue to proliferate as the prices of WiFi gear continue to drop. 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, how WiFi networks are designed and deployed, and the future of WiFi, including its relationship with WiMAX and other technologies.

Customize It!

You can have us 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 with 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 WiMAX and other technologies

**Course
Outline**

- Telecommunications Basics
 - Networking basics
 - LANs and WANs
 - Basics of RF communications
 - Mobile and fixed wireless technologies
- Introduction to WiFi
 - What is WiFi
 - WiFi manufacturers
 - Uses of Wi-Fi
 - Current and projected market for WiFi
- How WiFi Works
 - Technical principles that underlie the operation of WiFi
 - Frequency bands
 - Components of a WiFi network
- 802.11 Standards Evolution
 - Overview of standards: 802.11b, 802.11g, 802.11n
 - 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
 - Managing a WiFi system
- Future of Wi-Fi
 - Future evolution of WiFi
 - Wi-Fi and IPTV
 - Wi-Fi with MIMO
 - Relationship with WiMAX
 - WiMAX capabilities and applications
- Wrap-Up: Course Recap, Q/A, and Evaluations

**How You Will
Learn**

- An instructor who is also an engineer well versed in WiFi and related technologies will teach this class in an interactive tutorial format.
- You will be given real-life examples, applications, and exercises to help you relate the subject matter to your job.
- You will also receive a student manual for reference after you're back on your job.

Revised

April 29f, 2007