

Course ID

LTE-BIZ

Course Duration

2 days

Course Title

3G LTE: Technology, Business, and Competitive Landscape

Related Courses

- 3G LTE/SAE: A Technology Overview (LTE-TECH, 3 days)
- 3G LTE Air Interface Techniques (LTEAI, 3 days)
- 3G LTE Advanced System Techniques (LTE-ADV, 4 days)
- 3G LTE Signaling and Functionality (LTESIG, 3 days)
- 3G LTE Planning Considerations (LTEPLAN, 4 days)

Aimed At

This course is aimed at professionals and managers involved with technology evaluation and selection, business planning or strategy, product or services design, marketing or sales, procurement, investment analysis, and others who can benefit from an in-depth but nontechnical overview of the evolving 3G LTE/4G technology.

Group Size

5-25

Prerequisites

- State-of-the-art of Wireless Communications for Non-engineering Professionals, Managers, and Executives (4 day(s), WIRELESS-EXEC)

While there are no specific prerequisites for this course, some exposure to telecommunications or IT, and a very basic understanding of GSM and WCDMA, will be helpful. The course listed above is a recommended prerequisite that can help provide the necessary background.

**Course
in a Nutshell**

This “business men’s introduction” to 3G LTE/SAE and 4G the next generation of mobile networks, will help you understand how LTE evolved from GSM, GPRS/EDGE, UMTS, and HSPA; how it compares with competitive technologies such as WiMAX; the architecture of an LTE network and its implications for the transmission network; and the value-added applications and services that 3G LTE can support. All of this will be discussed in a manner understandable to an audience of non-engineers.

Customize It!

- If you are new to wireless and to GSM/WCDMA, we can enhance this course with a 1-2 day wireless/GSM/UMTS introduction that will help you get more out of this course on 3G LTE/SAE.
- Is your job focused more on marketing/sales, applications/services strategy, or the economics of network evolution? Tell us where your principal interests lie, so we can emphasize the issues that are most relevant to your needs.

Course Outline

- 3G LTE/SAE Introduction
 - Brief history of cellular
 - “Packetization” of cellular networks
 - In the beginning: A brief overview of GSM
 - 2.5G evolution: GPRS and EDGE
 - UMTS evolution: Enhancements in the context of market needs
 - 3GPP releases (Release 99 up to Release 8)
 - Evolution of 4G and the business factors driving this evolution
 - Major players in the 3G LTE/4G market
 - Competitive technologies
- Network Overview
 - EPS (E-UTRAN and EPC) logical architecture
 - EPS interfaces
 - EPC (Evolved Packet Core) architecture
 - SAE/LTE Interfaces
 - OFDMA principles
 - MIMO explained
 - Radio interface overview
- LTE Services and Applications
 - Voice over LTE
 - Video applications over LTE
 - Packet applications over LTE
 - MBMS over LTE
- LTE Deployment
 - LTE requirements
 - Mobile Packet Backbone Network (MPBN)
 - LTE implementation over WCDMA/GSM
 - LTE vs WiMAX: Why LTE?
- Course Wrap Up: Future of Wireless, Class Discussion

How You Will Learn

- A wireless technologies expert, well versed in a variety of 3G/4G technologies, will present this course as an interactive tutorial.
- Along with the lecture, he will use discussion, exercises, and case studies to enrich the instruction and make important points.
- If you already know something about the GSM/WCDMA technologies, the course will build on your existing knowledge.
- We will compare and contrast what’s familiar with what’s new, making the new ideas easier to learn as well as more relevant to you.
- If your background is less technical, we will use interesting examples and

- analogies to break down the subject matter complexity.
- You will receive a printed Participant Handbook which will help you remember and retain what you learned in class and apply it on your job.

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