

LTE for the Wireless Engineering Practitioner: Fundamentals & Applications

Course Format:

Online Course

Date:

Thu, April 25, 2013 - 9:00am - 4:30pm EDT

Location: Online

Price:

\$300 non-member

\$250 member

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LTE (Long Term Evolution) is the most recent cellular system to be deployed. In an article featured in **ElectronicsWeekly.com**, Richard Wilson writes:

LTE is set to become the most successful mobile phone standard with the fastest commercial deployment, according to the GSA mobile suppliers association. ... "With 145 LTE networks commercially launched and over 560 user devices announced in the market supporting millions of customers worldwide, LTE technology is mainstream and firmly established as the fastest developing mobile system technology ever," said Alan Hadden, President of the GSA. GSA forecasts that 234 LTE networks will be commercially launched in 83 countries by the end of 2013.

Take this one day course to learn what LTE is, why it's used, how it works taking a closer look at related concepts, technology advances and new network and service paradigms in addition to understanding its future directions. In this course Lee Vishloff will focus on the evolution of wireless communications technology and networks with a concentration on an end-to-end LTE system view and the influence of emerging IP networks. This course focuses on:

- Wireless Landscape & Technology Evolution
- LTE Channel and Transmission Technologies
- Wireless Networks Evolution
- All-IP and Evolved Packet Core
- LTE Policy & QoS
- LTE /EPC VoIP & IMS
- Wireless Services

- Operational Efficiency & Self-Organizing Networks
- LTE Ecosystem Evolution

Learn about LTE Advanced features which give it its improved throughput and flexibility.

You can ask Lee questions using the questions tab on your GoTo Webinar panel. The course will be recorded and you will have access to it for seven days once it's posted online.

System Requirements:

Windows support

- Intel Core2 Duo CPU 2.XX GHz or AMD processor. (2 GB of RAM recommended)
- JavaScript and Cookies enabled
- Active X enabled and unblocked for Microsoft Internet Explorer (recommended)
- Java 6.0 or above

Mac support

- Intel processor (512 MB of RAM or more recommended)
- JavaScript and Cookies enabled
- Plug-ins enabled in Safari
- Java 6.0 or above
- Kernel: 2.6 or later
- X Lib: X11R6 or later compatible
- C++ Lib: libstdc++ 6
- Desktop Environment, XFce 4.0 or later, KDE, Ximian, Gnome
- GDK/GTK. version: 2.0 or later
- Glib: 2.0 or later
- Sun Java 1.5 or later

Linux support

- Kernel: 2.6 or later
- X Lib: X11R6 or later compatible
- C++ Lib: libstdc++ 6
- Desktop Environment, XFce 4.0 or later, KDE, Ximian, Gnome
- GDK/GTK. version: 2.0 or later
- Glib: 2.0 or later
- Sun Java 1.5 or later

Instructors:

[Javan Erfanian](#)

Who Should Attend:

Recommended for a broad audience - professionals working in the wireless field or practitioners or graduate level students interested in learning more about wireless communications--LTE specifically, are a natural audience.

Learning Objectives:

- Understand what LTE is, why it's used, how it works and what it's future directions are
- Differentiate default bearer vs. dedicated bearer
- Identify LTE major interworking call scenarios by type of network and type of service
- Understand voice roaming circuit switching steps
- Appreciate LTE Network and Service Architecture capabilities

Course Content:

This course covers wireless access technology evolution (from 3G systems like UMTS/WCDMA to LTE); from the perspectives of standards and capabilities; LTE access technology, phased roadmap and LTE-Advanced; End-to-End LTE system view, evolution, and trends; network management and security; LTE core - evolved packet core; wireless service evolution; All-IP Network service implications; LTE voice services and IMS.

Course Materials:

Each registered student receives a print copy of the instructor's slides and access to the streaming video recording (voice over powerpoint) of the course for seven days. Earn 0.6 IEEE Continuing Education Units for participating.

COURSE CANCELLATION and REFUND POLICY

Requests for online course cancellations must be received 7 business days prior to the course date for a full refund. Once course materials have been shipped to a course participant, if a cancellation request is made, only a 50% refund can be issued and transferring the seat to a future course date cannot be accommodated. Refunds for in-person courses can be issued up to 5 days prior to the course.

Clarification on Course Materials and Delivery.

A copy of the instructor's PowerPoint slide presentation is provided via post to all online course registrants. For in-person courses the handout is distributed on site. The handout is provided as a courtesy and is made available for the course participants future reference. For registrants who purchase a seat in a course less than 7 business days prior to the course being taught, there is no guarantee that the course materials will arrive by the date the course is taught online. Having a copy of the slides in hand does not preclude a registrants ability to participate in the live teaching of the course or their ability to review the recorded session.

Registration Link: <https://register.comsoc.org/content/lte-wireless-engineering-practitioner-fundamentals-applications-april-2013>

Registration Note:

Register by 18 April to guarantee delivery of your course handout in time for the course.

Registration Ends:

Wed, 04/24/2013 - 17:00

General Contact: m.catis@comsoc.org

Technical Support Contact: a.ruiz@comsoc.org

Source URL: <http://www.comsoc.org/training/training-calendar/lte-wireless-engineering-practitioner-fundamentals-applications-6>