



Very good introduction to mobile technology!



Watch our course intro video.



Introduction to UMTS

Course Description

The third-generation technology of UMTS continues to play an important part in the global communication landscape and the delivery of mobile broadband services. In this short course, we aim to provide a comprehensive introduction into UMTS and in so doing, provide an overview of the architectural view of UMTS and explain how it supports circuit switched voice and packet switched data traffic. Mobility is also discussed in addition to how roaming is supported. Finally, interworking with both 2G and LTE will be discussed, with a brief focus on Circuit Switched Fallback.

This course has no prerequisites.

1/2 day
(LiveOnsite,
LiveOnline)

3 hours
learning
(OnlineAnytime)

3

CPD Learning
Credits



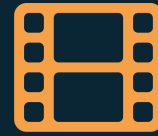
Level: 1
(Beginner)

This course will contain the following sections:

1. Introduction to UMTS

Topic areas covered include:

- The UMTS Network:
 - 3G Services.
 - Circuit Switching and Packet Switching.
 - The UMTS Terminal.
 - The Universal Terrestrial Radio Access Network.
 - The UMTS Core Network.
- The UMTS Air Interface:
 - Modulation Techniques.
 - Adaptive Modulation and Coding.
 - Code Division Multiple Access.
 - Evolution of HSPA.
- Connecting to the Network:
 - Mobility Management.
 - Initial Procedures.
- Making and Receiving Calls:
 - Mobile Originated Call.
 - Mobile Terminated Call.
 - SMS Transfer.
- Sending and Receiving Data:
 - Session Management.
 - Data Transfer.
- Supporting Mobility:
 - Cell Re-selection.
 - Handovers.
 - Roaming.
- Interworking:
 - Interworking with 2G.
 - Interworking with LTE.



**Watch a Sample
Video Online**

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(OnlineAnytime)

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**CPD Learning
Credits**



**LiveOnsite, LiveOnline,
OnlineAnytime**



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- Bespoke content and courseware development.
- Product specific training packages, including product updates.
- Dedicated trainers to understand your products and training requirements.
- Managed training delivery services – administrative aspects including scheduling and liaison.
- Customizable learning management system.
- Traditional classroom, virtual classroom or video based online learning options.

NetX

The Mpirical Network Visualisation Solution: **NetX Bringing Telecoms to Life!** Imagine the benefits of having an entire mobile network available from your desktop.

- Where you can view a complete network map.
- Watch call flows across the network.
- Investigate network procedures.

NetX does this... and even more with our NetX customization options! NetX is not just a learning aid, it is a valuable resource in the day to day activities of any telecoms professional and has been spotlighted as such by the 3GPP.

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